PMAC202 Branch Circuit Power Meter MODBUS Protocol V1.4

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1. Introduction

This communication protocol describes the input and output of instruction, information and data of PMAC202 with MODBUS communication, which bring convenience for the usage and development of the third party.

1.1 The purpose of the serial communication protocol

The role of communication protocols is to exchange the information and data between the host computer (master) and the PMAC202, which includes:

- (1) Allow the master to access and set all the parameters of PMAC202
- (2) Allow access to all measurement data and event records of PMAC202

1.2 MODBUS communication protocol version

This communication protocol suits for all versions of PMAC202 of Pilot. Any changes will be specified in the future.

2. Detailed Description of MODBUS Serial Communication

2.1 Basic Rules for PMAC202-MODBUS Protocol

The following rules are used for RS485 or RS232C circuit controller and other equipments with RS485 serial communication circuit:

- 1) All RS485 circuit communication shall be subject to the master / slave mode. In this manner, the information and data is exchanged between a single master station and up to 32 slave stations (monitoring equipments).
- 2) The master station will initialize and control all the information in the RS485 communication circuits.
- 3) Communication can not be started from any slave station.
- 4) All communication of the RS485 circuits happened with the mode of "package", and one package is a simple to the "package". A parcel is a simple string (each string, 8digits). A package can contain up to 255 bytes. These bytes of the package constitutes a standard asynchronous serial data and transfer in the mode of eight data bits, 1 stop bit, no parity bit. Serial data stream is generated from the similar

equipments used by the RS232C.

- 5) The package sent from master station is named request, and the one from slave station os named response.
- 6) The slave station can only respond to one request from the master station in any case.

2.2 Transfer Mode

MODBUS protocol can transfer data in ASCII or RTU mode. PMAC 202 supports only the RTU mode, eight data bits, no parity, 1 stop bit.

2.3 MODBUS Package Structure Description

Each the MODBUS parcel consists of the following parts:

- 1) Address field
- 2) Function code field
- 3) Data field
- 4) Checksum field

2.3.1 Address Field

The length of the Address Field of MODBUS slave station is 1 byte, including the address of slave station sent from the package. The valid slave station address is ranged from 1 - 247. When the slave station received the package information of Address Field in the slave station which can match its own address, it should implement the command in the package. The domain of the package in response in the slave station is its own address.

As the HMI can connect and communicate with the controller of any address, the address of request sent from HMI is specified as 0.

2.3.2 Function Code Field

The length of function field in the package is 1 byte, which is used to inform the slave station what to operate. The package of response of the slave station, should include the same the same function field bytes. The function codes of MAC202 as following:

Function	Definitaion	Functions
Code		

0x03	Register reading	Obtain one or more actual register value inside present PMAC202
0x05	Relay controlling	Control the relays of PMAC202
0x10	Register setting	Write designated value into one or more registers of PMAC202

2.3.3 Data Field

The length of the MODBUS data is not fixed, change as per the specific functions. The data of MODBUS adopts the mode of "BIG INDIAN", i.e. High byte first, low byte second. For example:

Example 2.1

A 16-bit register contains the value 0x12AB, register value sent as per the order of:

High byte = 0x12Low byte = 0x0AB

2.3.4 Checksum Field

MODBUS-RTU mode with 16-bit CRC checksum, the sending device should carry out CRC16 calculation for each data inside the package, while the receiving device will also carry out CRC16 calculation for each data (except checksum field) of the package. After comparison of the results and the checksum field, only the package with the same data can be accepted. For detailed CRC checksum algorithm please refer to the appendix.

2.4 Network Feedback Time

To transmit the package via RS485 network, the regulations of time should be followed:

- 1) From ending a request package from master station to starting response of the slave station, the minimum time is 20 milliseconds, and maximum time is 260 milliseconds, with a typical time of 60 milliseconds.
- 2) From the master station ending a response to the package to the next request, the typical time will be 100 milliseconds.
- 3) The maximum time between two adjacent bytes in the package differs as per the change of baud rate. In general, the maximum byte time is three times of byte sending time. (Such as with baud rate of 9600, the byte interval is 3 ms; with 4800 baud rate, byte interval is 6 ms).

2.5 Abnormal Response

If the master station sends an illegal package to PMAC202 or the master station requests an invalid register, the abnormal data response will happen. This abnormal data response consists of the address of slave station , function code, the fault code and the checksum field. When the high bit of the function code field is 1, it means the abnormal response of data frame. The following table describes the meaning of the abnormal function code:

Function Code name	Description
01 illegal function code	PMAC202-MODBUS only support function code like 03H, 05H and 10H. The code means the slave station had received illegal function code.
02 illegal data address	PMAC202 received the invalid data address, or the register requested is not in the range of valid registers.
03 illegal data value	Surpass the data scale.

2.6 Broadcast command

PMAC202-MODBUS protocol does not support Broadcast command.

3 Communication Package

PMAC202-MODBUS supports two function code, and standard MODBUS protocol only supports 16-bit data mode, i.e. The maximum of any measured value transmitted is 65535.

- 3.1 Description of the command of relay controlling.
- 3.2 Description of the package format of PMAC202 reading data and responding data.
- 3.3 Description of the package format of PMAC202 writing data packages and responding data.

3.1 Read Registers (Function code 03H)

The request package from master station request PMAC202 to respond all valid registers, to reserve registers, the content is 0.

Format of reading register packages			Format of responding	
(master →PMAC202)	(master →PMAC202)		(PMAC202→master)	
Slave station address	1byte		Slave station address	1byte
Function code 03H	1byte		Function code 03H	1byte
Starting address	2bytes		bytes (2*register quantity)	1byte
Register quantity	2bytes		First register data	2bytes
CRC checksum code	2bytes		Second register data	2bytes
			CRC checksum code	2bytes

3.2 Control Command Relay (Functional code 05H)

With 05 command, operation can be done to common relay, the address of relay starts from 0. Data fields 0xFF00, the relay is closed; data field 0x0000, disconnect the relay.

Format of reading register package (master→PMAC202)			Format of responding (PMAC202→master)	
Slave station address	1byte		Slave station address	1byte
Function code 05H	1byte		Function code 05H	1byte
Starting address	2bytes		Starting address	2bytes
Data field	FF		Data field	FF
Data field	00		Data field	00
CRC checksum code	2bytes		CRC checksum code	2bytes

3.3 Write Registers (Function code 10H)

This command permits the main station to configure the working parameters of PMAC202, the data format as follows:

Format of write register package			Format of Responding		
(master→PMAC202)			(PMAC202→master)		
Slave station address	1byte		Slave station address	1byte	
Function code 10H	1byte		Function code 10H	1 byte	
Starting address	2 bytes		Starting address	2 bytes	
Quantity of registers	2bytes		Quantity of Registers	2 bytes	
bytes (2*quantity of registers)	1byte		CRC checksum code	2 bytes	
Data of the first register	2 bytes				
Data of the second register	2 bytes				
CRC checksum code	2 bytes				

Attention:

The registers assumed to write of PMAC202 is continuous from the first register.

4 CRC-16 Calculation

This part describes CRC-16 calculation process. Bytes in the frame is defined as a string of binary data (0,1). The 16th checksum obtained in this way: the serial data stream to be multiplied by 216, then dividing by the generator polynomial (X16 + X15, + X2 + 1), the process in binary is 110000000000101. Quotient is ignored, the 16 bytes remainder is the CRC value. In the calculation of the CRC-16 value, all arithmetic modulo is the modulo two or XOR (X0R) algorithm.

To generate CRC-16 checksum, follow these steps:

- 1) The most significant bit of omission generator, and reverse the bits order, form a new polynomial, the result is 101000000000001 or hexadecimal A001.
- 2) Put all 1 or hexadecimal FFFF into 16-bit register.
- 3) Use 16 medium or low-order byte to carry out XOR calculation of the first data byte, the result to be stored in 16 registers.
- 4) Move the 16-bit register one bit to the right, If the overflow bit is 1, then turn to Step 5, otherwise turn to Step 6.

- 5) Use the new generator polynomial to carry out the MOR calculation to the 16-bit registers, and store the result to 16 steps.
- 6) Repeat step 4, until the shift bit unit is 8 times.
- 7) Use first order bytes of 16-bit register to implement XOR calculation to the next data bytes, and store the result to 16-bit register.
- 8) Repeat step 4-7, until all the bytes in the package all calculated by 16-bit register.
- 9) The content of 16-bit register is CRC-16.

The following example is CRC calculation for hex bytes 6403.

steps	bytes	action	register	bit#	Bit shift
2		Primary value	1111 1111 1111 1111		
	1	Input the first byte	0000 0000 0110 0100		
3		XOR	1111 1111 1001 1011		
4		Right 1 bit	0111 1111 1100 1101	1	1
5a		XOR polynomial	1101 1111 1100 1100		
4		Right 1 bit	0110 1111 1110 0110	2	0
4		Right 1 bit	0011 0111 1111 0011	3	0
4		Right 1 bit	0001 1011 1111 1001	4	1
5a		XOR polynomial	1011 1011 1111 1000		
4		Right 1 bit	0101 1101 1111 1100	5	0
4		Right 1 bit	0010 1110 1111 1110	6	0
4		Right 1 bit	0001 0111 0111 1111	7	0
4		Right 1 bit	0000 1011 1011 1111	8	1
5a		XOR polynomial	1010 1011 1011 1110		
	2	Put to the second byte	0000 0000 0000 0011		
7		XOR	1010 1011 1011 1101		
4		Right 1 bit	0101 0101 1101 1110	1	1

5a	XOR polynomial	1111 0101 1101 1111		
4	Right 1 bit	0111 1010 1110 1111	2	1
5a	XOR polynomial	1101 1010 1110 1110		
4	Right 1 bit	0110 1101 0111 0111	3	0
4	Right 1 bit	0011 0110 1011 1011	4	1
5a	XOR polynomial	1001 0110 1011 1010		
4	Right 1 bit	0100 1011 0101 1101	5	0
4	Right 1 bit	0010 0101 1010 1110	6	1
5a	XOR polynomial	1000 0101 1010 1111		
4	Right 1 bit	0100 0010 1101 0111	7	1
5a	XOR polynomial	1110 0010 1101 0110		
4	Right 1 bit	0111 0001 0110 1011	8	0
	CRC-16	0111 0001 0110 1011		

5 PMAC202 Register Instruction

All registers of PMAC202 (including real-time register and set register), have the 4XXXX base address of the MODBUS communication protocol. According to the MODBUS protocol, when request a register with address 4XXXX in PMAC202, the master station actually reads XXXX-1, For example, request the 40011 register in PMAC202, the main station actually reads register No. 10.

5.1 Measured Data Registers of Main Circuit

Register address	Access	Definition	Remarks
40001	RO	Va, Main circuit	
40002	RO	Vb, Main circuit	
40003	RO	Vc, Main circuit	

40004	RO	la, Main circuit
40005	RO	Ib, Main circuit
40006	RO	Ic, Main circuit
40007	RO	In (neutral current), Main circuit
40008	RO	Current Unbalance Rate, Main circuit
40009	RO	Ia_max., Main circuit
40010	RO	Ib_max., Main circuit
40011	RO	Ic_max., Main circuit
40012	RO	In_max., Main circuit
40013	RO	Demand for Ia, Main circuit
40014	RO	Demand for Ib, Main circuit
40015	RO	Demand for Ic, Main circuit
40016	RO	Max. demand for Ia, Main circuit
40017	RO	Max. demand for Ib, Main circuit
40018	RO	Max. demand for Ic, Main circuit
40019	RO	Pa, Main circuit
40020	RO	Pb, Main circuit
40021	RO	Pc, Main circuit
40022	RO	Ptot, (low word), Main circuit
40023	RO	Ptot, (high word), Main circuit
40024	RO	Demand for Pa, Main circuit
40025	RO	Demand for Pb, Main circuit
40026	RO	Demand for Pc, Main circuit
40027	RO	Demand for Ptot, (low word), Main circuit
40028	RO	Demand for Ptot (high word), Main circuit
40029	RO	Max. demand for Pa, Main circuit
40030	RO	Max. demand for Pb, Main circuit

40031	RO	Max. demand for Pc, Main circuit	
40032	RO	Max. demand for Ptot, (low word), Main circuit	
40033	RO	Max. demand for Ptot, (high word), Main circuit	
40034	RO	Phase A power factor, Main circuit	
40035	RO	Phase B power factor, Main circuit	
40036	RO	Phase C power factor, Main circuit	
40037	RO	Total power factor, Main circuit	
40038	RO	Frequency	
40039	RO	Active Energy Low word of Main circuit	
40040	RO	Active Energy high word of Main circuit	
40041	RO	THD for Va, Main circuit	
40042	RO	THD for Vb, Main circuit	
40043	RO	THD for Vc, Main circuit	
40044	RO	THD for Ia, Main circuit	
40045	RO	THD for Ib, Main circuit	
40046	RO	THD for Ic, Main circuit	
40047	RO	Qa, Main circuit	
40048	RO	Qb, Main circuit	
40049	RO	Qc, Main circuit	
40050	RO	Qtot, (low word), Main circuit	
40051	RO	Qtot, (high word), Main circuit	
40052	RO	Reactive energy Low word of Main circuit	
40053	RO	Reactive energy High word of Main circuit	
40054	RO	Leakage current, Main circuit	
40055	RO	Temperature	
40056	RO	Neutral-Earth Voltage	

			Bit0-Bit2: quantity of CT module (1 means one module, 3 means two modules); Bit3: DI module
			(0 means no,
			1 means yes)
40057	RO	Hardware configuration	Bit4: neutral-earth voltage
40037	, KO	Hardware configuration	(0 means no, 1 means yes)
			Bit5: Temperature
			(0 means no, 1 means yes);
			Bit6: Leakage current measurement
			(0 means no, 1 means yes).
40058	RO	CT ratio	
			0 means OFF,
			1 means ON
			Bit0 DI 1 Status
40059	RO	DI and relay output status of main module	Bit1 DI 2 Status
40000	T.O	Di and relay output status of main module	Bit2 DI 3 Status
			Bit3 DI 4 Status
			Bit8 Relay 1 Status
			Bit9 Relay 2 Status
40060	RO	DI status of branch circuit 1 ~16, DI module-A	
40061	RO	DI status of branch circuit 17~21, DI module-A	
40062	RO	DI status of branch circuit 1 ~16, DI module-B	

40063	RO	DI status of branch circuit 17~21, DI module-B	
40064	RO	Reserved	
40065	RO	Reserved	
40066	RO	Reserved	
40067	RO	Reserved	
40068	RO	Reserved	
40069	RO	Reserved	
40070	RO	Reserved	

5.2 Alarm Registers

Register address	Property	Definition	Remarks
40101	RO	Alarm Info of Main circuit	Setting value alarm
40102	RO	Switch off alarm of Main circuit	bit0-bit3: S1-S4。
40103	RO	Alarm info of branch circuit 1	
40104	RO	Alarm info of branch circuit 2	
40105	RO	Alarm info of branch circuit 3	
40106	RO	Alarm info of branch circuit 4	
40107	RO	Alarm info of branch circuit 5	
40108	RO	Alarm info of branch circuit 6	
40109	RO	Alarm info of branch circuit 7	
40110	RO	Alarm info of branch circuit 8	
40111	RO	Alarm info of branch circuit 9	
40112	RO	Alarm info of branch circuit 10	
40113	RO	Alarm info of branch circuit 11	
40114	RO	Alarm info of branch circuit 12	
40115	RO	Alarm info of branch circuit 13	

40116	RO	Alarm info of branch circuit 14
40117	RO	Alarm info of branch circuit 15
40118	RO	Alarm info of branch circuit 16
40119	RO	Alarm info of branch circuit 17
40120	RO	Alarm info of branch circuit 18
40121	RO	Alarm info of branch circuit 19
40122	RO	Alarm info of branch circuit 20
40123	RO	Alarm info of branch circuit 21
40124	RO	Alarm info of branch circuit 22
40125	RO	Alarm info of branch circuit 23
40126	RO	Alarm info of branch circuit 24
40127	RO	Alarm info of branch circuit 25
40128	RO	Alarm info of branch circuit 26
40129	RO	Alarm info of branch circuit 27
40130	RO	Alarm info of branch circuit 28
40131	RO	Alarm info of branch circuit 29
40132	RO	Alarm info of branch circuit 30
40133	RO	Alarm info of branch circuit 31
40134	RO	Alarm info of branch circuit 32
40135	RO	Alarm info of branch circuit 33
40136	RO	Alarm info of branch circuit 34
40137	RO	Alarm info of branch circuit 35
40138	RO	Alarm info of branch circuit 36
40139	RO	Alarm info of branch circuit 37
40140	RO	Alarm info of branch circuit 38
40141	RO	Alarm info of branch circuit 39
40142	RO	Alarm info of branch circuit 40
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40143	RO	Alarm info of branch circuit 41	
40144	RO	Alarm info of branch circuit 42	
40145	RO	DI and relay output status of main module	
40146	RO	DI status of branch circuit 1 ~16, DI module-A	
40147	RO	DI status of branch circuit 17~21, DI module-A	
40148	RO	DI status of branch circuit 1 ~16, DI module-B	
40149	RO	DI status of branch circuit 17~21, DI module-B	
40150	RO	Reserved	
40151	RO	Reserved	
40152	RO	Reserved	
Alarm info of main circuit		bit0: current low-low-limit alarm	
		bit0: current low-low-limit alarm bit1: current low-limit alarm	
		bit1: current low-limit alarm	
		bit1: current low-limit alarm bit2: current high-limit alarm	
		bit1: current low-limit alarm bit2: current high-limit alarm bit3: current high-high-limit alarm	
		bit1: current low-limit alarm bit2: current high-limit alarm bit3: current high-high-limit alarm bit4: neutral current high-limit alarm	
		bit1: current low-limit alarm bit2: current high-limit alarm bit3: current high-high-limit alarm bit4: neutral current high-limit alarm bit5: current unbalance alarm	
		bit1: current low-limit alarm bit2: current high-limit alarm bit3: current high-high-limit alarm bit4: neutral current high-limit alarm bit5: current unbalance alarm bit6: frequency low-limit alarm	
		bit1: current low-limit alarm bit2: current high-limit alarm bit3: current high-high-limit alarm bit4: neutral current high-limit alarm bit5: current unbalance alarm bit6: frequency low-limit alarm bit7: frequency high-limit alarm	
		bit1: current low-limit alarm bit2: current high-limit alarm bit3: current high-high-limit alarm bit4: neutral current high-limit alarm bit5: current unbalance alarm bit6: frequency low-limit alarm bit7: frequency high-limit alarm bit8: low voltage alarm	

	bit12: neutral-earth voltage high-limit alarm	
	bit13: income circuit voltage phase-short alarm	
	bit14: income circuit voltage phase wrong alarm	
Alarm info of branch circuit	bit0: current low-low-limit alarm	
	bit1: current low-limit alarm	
	bit2: current high-limit alarm	
	bit3: current high-high-limit alarm	
	bit14: branch circuit switch off alarm	

5.3 Measured Data Registers of Branch Circuit

Register address	Property	Definition	Remarks
40201	RO	I, Branch circuit 1	
40202	RO	I_max, Branch circuit 1	
40203	RO	Demand for I, Branch circuit 1	
40204	RO	Max. demand for I, Branch circuit 1	
40205	RO	P, Branch circuit 1	
40206	RO	Demand for P, Branch circuit 1	
40207	RO	Max. demand for P, Branch circuit 1	
40208	RO	Power factor, Branch circuit 1	
40209	RO	Q, Branch circuit 1	
40210	RO	THD for I, Branch circuit 1	
40211	RO	kWh (low word), Branch circuit 1	

40212	RO	kWh (high word), Branch circuit 1	
40213	RO	kvarh (low word), Branch circuit 1	
40214	RO	kvarh (high word), Branch circuit 1	
40215	RO	I, Branch circuit 2	
40216	RO	I_max, Branch circuit 2	
40217	RO	Demand for I, Branch circuit 2	
40218	RO	Max. demand for I, Branch circuit 2	
40219	RO	P, Branch circuit 2	
40220	RO	Demand for P, Branch circuit 2	
40221	RO	Max. demand for P, Branch circuit 2	
40222	RO	Power factor, Branch circuit 2	
40223	RO	Q, Branch circuit 2	
40224	RO	THD for I, Branch circuit 2	
40225	RO	kWh (low word), Branch circuit 2	
40226	RO	kWh (high word), Branch circuit 2	
40227	RO	kvarh (low word), Branch circuit 2	
40228	RO	kvarh (high word), Branch circuit 2	
40229	RO	I, Branch circuit 3	
40230	RO	I_max, Branch circuit 3	
40231	RO	Demand for I, Branch circuit 3	
40232	RO	Max. demand for I, Branch circuit 3	
40233	RO	P, Branch circuit 3	
40234	RO	Demand for P, Branch circuit 3	
40235	RO	Max. demand for P, Branch circuit 3	
40236	RO	Power factor, Branch circuit 3	
40237	RO	Q, Branch circuit 3	
40238	RO	THD for I, Branch circuit 3	

40239	RO	kWh (low word), Branch circuit 3	
40240	RO	kWh (high word), Branch circuit 3	
40241	RO	kvarh (low word), Branch circuit 3	
40242	RO	kvarh (high word), Branch circuit 3	
40243	RO	I, Branch circuit 4	
40244	RO	I_max, Branch circuit 4	
40245	RO	Demand for I, Branch circuit 4	
40246	RO	Max. demand for I, Branch circuit 4	
40247	RO	P, Branch circuit 4	
40248	RO	Demand for P, Branch circuit 4	
40249	RO	Max. demand for P, Branch circuit 4	
40250	RO	Power factor, Branch circuit 4	
40251	RO	Q, Branch circuit 4	
40252	RO	THD for I, Branch circuit 4	
40253	RO	kWh (low word), Branch circuit 4	
40254	RO	kWh (high word), Branch circuit 4	
40255	RO	kvarh (low word), Branch circuit 4	
40256	RO	kvarh (high word), Branch circuit 4	
40257	RO	I, Branch circuit 5	
40258	RO	I_max, Branch circuit 5	
40259	RO	Demand for I, Branch circuit 5	
40260	RO	Max. demand for I, Branch circuit 5	
40261	RO	P, Branch circuit 5	
40262	RO	Demand for P, Branch circuit 5	
40263	RO	Max. demand for P, Branch circuit 5	
40264	RO	Power factor, Branch circuit 5	
40265	RO	Q, Branch circuit 5	

40266	RO	THD for I, Branch circuit 5
40267	RO	kWh (low word), Branch circuit 5
40268	RO	kWh (high word), Branch circuit 5
40269	RO	kvarh (low word), Branch circuit 5
40270	RO	kvarh (high word), Branch circuit 5
40271	RO	I, Branch circuit 6
40272	RO	I_max, Branch circuit 6
40273	RO	Demand for I, Branch circuit 6
40274	RO	Max. demand for I, Branch circuit 6
40275	RO	P, Branch circuit 6
40276	RO	Demand for P, Branch circuit 6
40277	RO	Max. demand for P, Branch circuit 6
40278	RO	Power factor, Branch circuit 6
40279	RO	Q, Branch circuit 6
40280	RO	THD for I, Branch circuit 6
40281	RO	kWh (low word), Branch circuit 6
40282	RO	kWh (high word), Branch circuit 6
40283	RO	kvarh (low word), Branch circuit 6
40284	RO	kvarh (high word), Branch circuit 6
40285	RO	DI and relay output status of main module
40286	RO	DI status of branch circuit 1 ~16, DI module-A
40287	RO	DI status of branch circuit 17~21, DI module-A
40288	RO	DI status of branch circuit 1 ~16, DI module-B
40289	RO	DI status of branch circuit 17~21, DI module-B
40290	RO	I, Branch circuit 7
40291	RO	I_max, Branch circuit 7
40292	RO	Demand for I, Branch circuit 7

40293	RO	Max. demand for I, Branch circuit 7	
40294	RO	P, Branch circuit 7	
40295	RO	Demand for P, Branch circuit 7	
40296	RO	Max. demand for P, Branch circuit 7	
40297	RO	Power factor, Branch circuit 7	
40298	RO	Q, Branch circuit 7	
40299	RO	THD for I, Branch circuit 7	
40300	RO	kWh (low word), Branch circuit 7	
40301	RO	kWh (high word), Branch circuit 7	
40302	RO	kvarh (low word), Branch circuit 7	
40303	RO	kvarh (high word), Branch circuit 7	
40304	RO	I, Branch circuit 8	
40305	RO	I_max, Branch circuit 8	
40306	RO	Demand for I, Branch circuit 8	
40307	RO	Max. demand for I, Branch circuit 8	
40308	RO	P, Branch circuit 8	
40309	RO	Demand for P, Branch circuit 8	
40310	RO	Max. demand for P, Branch circuit 8	
40311	RO	Power factor, Branch circuit 8	
40312	RO	Q, Branch circuit 8	
40313	RO	THD for I, Branch circuit 8	
40314	RO	kWh (low word), Branch circuit 8	
40315	RO	kWh (high word), Branch circuit 8	
40316	RO	kvarh (low word), Branch circuit 8	
40317	RO	kvarh (high word), Branch circuit 8	
40318	RO	I, Branch circuit 9	
40319	RO	I_max, Branch circuit 9	

40320	RO	Demand for I, Branch circuit 9	
40321	RO	Max. demand for I, Branch circuit 9	
40322	RO	P, Branch circuit 9	
40323	RO	Demand for P, Branch circuit 9	
40324	RO	Max. demand for P, Branch circuit 9	
40325	RO	Power factor, Branch circuit 9	
40326	RO	Q, Branch circuit 9	
40327	RO	THD for I, Branch circuit 9	
40328	RO	kWh (low word), Branch circuit 9	
40329	RO	kWh (high word), Branch circuit 9	
40330	RO	kvarh (low word), Branch circuit 9	
40331	RO	kvarh (high word), Branch circuit 9	
40332	RO	I, Branch circuit 10	
40333	RO	I_max, Branch circuit 10	
40334	RO	Demand for I, Branch circuit 10	
40335	RO	Max. demand for I, Branch circuit 10	
40336	RO	P, Branch circuit 10	
40337	RO	Demand for P, Branch circuit 10	
40338	RO	Max. demand for P, Branch circuit 10	
40339	RO	Power factor, Branch circuit 10	
40340	RO	Q, Branch circuit 10	
40341	RO	THD for I, Branch circuit 10	
40342	RO	kWh (low word), Branch circuit 10	
40343	RO	kWh (high word), Branch circuit 10	
40344	RO	kvarh (low word), Branch circuit 10	
40345	RO	kvarh (high word), Branch circuit 10	
40346	RO	I, Branch circuit 11	

40347	RO	I_max, Branch circuit 11	
40348	RO	Demand for I, Branch circuit 11	
40349	RO	Max. demand for I, Branch circuit 11	
40350	RO	P, Branch circuit 11	
40351	RO	Demand for P, Branch circuit 11	
40352	RO	Max. demand for P, Branch circuit 11	
40353	RO	Power factor, Branch circuit 11	
40354	RO	Q, Branch circuit 11	
40355	RO	THD for I, Branch circuit 11	
40356	RO	kWh (low word), Branch circuit 11	
40357	RO	kWh (high word), Branch circuit 11	
40358	RO	kvarh (low word), Branch circuit 11	
40359	RO	kvarh (high word), Branch circuit 11	
40360	RO	I, Branch circuit 12	
40361	RO	I_max, Branch circuit 12	
40362	RO	Demand for I, Branch circuit 12	
40363	RO	Max. demand for I, Branch circuit 12	
40364	RO	P, Branch circuit 12	
40365	RO	Demand for P, Branch circuit 12	
40366	RO	Max. demand for P, Branch circuit 12	
40367	RO	Power factor, Branch circuit 12	
40368	RO	Q, Branch circuit 12	
40369	RO	THD for I, Branch circuit 12	
40370	RO	kWh (low word), Branch circuit 12	
40371	RO	kWh (high word), Branch circuit 12	
40372	RO	kvarh (low word), Branch circuit 12	
40373	RO	kvarh (high word), Branch circuit 12	

40374	RO	DI and relay output status of main module
40375	RO	DI status of branch circuit 1 ~16, DI module-A
40376	RO	DI status of branch circuit 17~21, DI module-A
40377	RO	DI status of branch circuit 1 ~16, DI module-B
40378	RO	DI status of branch circuit 17~21, DI module-B
40379	RO	I, Branch circuit 13
40380	RO	I_max, Branch circuit 13
40381	RO	Demand for I, Branch circuit 13
40382	RO	Max. demand for I, Branch circuit 13
40383	RO	P, Branch circuit 13
40384	RO	Demand for P, Branch circuit 13
40385	RO	Max. demand for P, Branch circuit 13
40386	RO	Power factor, Branch circuit 13
40387	RO	Q, Branch circuit 13
40388	RO	THD for I, Branch circuit 13
40389	RO	kWh (low word), Branch circuit 13
40390	RO	kWh (high word), Branch circuit 13
40391	RO	kvarh (low word), Branch circuit 13
40392	RO	kvarh (high word), Branch circuit 13
40393	RO	I, Branch circuit 14
40394	RO	I_max, Branch circuit 14
40395	RO	Demand for I, Branch circuit 14
40396	RO	Max. demand for I, Branch circuit 14
40397	RO	P, Branch circuit 14
40398	RO	Demand for P, Branch circuit 14
40399	RO	Max. demand for P, Branch circuit 14
40400	RO	Power factor, Branch circuit 14
L	1	

40401	RO	Q, Branch circuit 14	
40402	RO	THD for I, Branch circuit 14	
40403	RO	kWh (low word), Branch circuit 14	
40404	RO	kWh (high word), Branch circuit 14	
40405	RO	kvarh (low word), Branch circuit 14	
40406	RO	kvarh (high word), Branch circuit 14	
40407	RO	I, Branch circuit 15	
40408	RO	I_max, Branch circuit 15	
40409	RO	Demand for I, Branch circuit 15	
40410	RO	Max. demand for I, Branch circuit 15	
40411	RO	P, Branch circuit 15	
40412	RO	Demand for P, Branch circuit 15	
40413	RO	Max. demand for P, Branch circuit 15	
40414	RO	Power factor, Branch circuit 15	
40415	RO	Q, Branch circuit 15	
40416	RO	THD for I, Branch circuit 15	
40417	RO	kWh (low word), Branch circuit 15	
40418	RO	kWh (high word), Branch circuit 15	
40419	RO	kvarh (low word), Branch circuit 15	
40420	RO	kvarh (high word), Branch circuit 15	
40421	RO	I, Branch circuit 16	
40422	RO	I_max, Branch circuit 16	
40423	RO	Demand for I, Branch circuit 16	
40424	RO	Max. demand for I, Branch circuit 16	
40425	RO	P, Branch circuit 16	
40426	RO	Demand for P, Branch circuit 16	
40427	RO	Max. demand for P, Branch circuit 16	

40428	RO	Power factor, Branch circuit 16	
40429	RO	Q, Branch circuit 16	
40430	RO	THD for I, Branch circuit 16	
40431	RO	kWh (low word), Branch circuit 16	
40432	RO	kWh (high word), Branch circuit 16	
40433	RO	kvarh (low word), Branch circuit 16	
40434	RO	kvarh (high word), Branch circuit 16	
40435	RO	I, Branch circuit 17	
40436	RO	I_max, Branch circuit 17	
40437	RO	Demand for I, Branch circuit 17	
40438	RO	Max. demand for I, Branch circuit 17	
40439	RO	P, Branch circuit 17	
40440	RO	Demand for P, Branch circuit 17	
40441	RO	Max. demand for P, Branch circuit 17	
40442	RO	Power factor, Branch circuit 17	
40443	RO	Q, Branch circuit 17	
40444	RO	THD for I, Branch circuit 17	
40445	RO	kWh (low word), Branch circuit 17	
40446	RO	kWh (high word), Branch circuit 17	
40447	RO	kvarh (low word), Branch circuit 17	
40448	RO	kvarh (high word), Branch circuit 17	
40449	RO	I, Branch circuit 18	
40450	RO	I_max, Branch circuit 18	
40451	RO	Demand for I, Branch circuit 18	
40452	RO	Max. demand for I, Branch circuit 18	
40453	RO	P, Branch circuit 18	
40454	RO	Demand for P, Branch circuit 18	

40455	RO	Max. demand for P, Branch circuit 18
40456	RO	Power factor, Branch circuit 18
40457	RO	Q, Branch circuit 18
40458	RO	THD for I, Branch circuit 18
40459	RO	kWh (low word), Branch circuit 18
40460	RO	kWh (high word), Branch circuit 18
40461	RO	kvarh (low word), Branch circuit 18
40462	RO	kvarh (high word), Branch circuit 18
40463	RO	DI and relay output status of main module
40464	RO	DI status of branch circuit 1 ~16, DI module-A
40465	RO	DI status of branch circuit 17~21, DI module-A
40466	RO	DI status of branch circuit 1 ~16, DI module-B
40467	RO	DI status of branch circuit 17~21, DI module-B
40468	RO	I, Branch circuit 19
40469	RO	I_max, Branch circuit 19
40470	RO	Demand for I, Branch circuit 19
40471	RO	Max. demand for I, Branch circuit 19
40472	RO	P, Branch circuit 19
40473	RO	Demand for P, Branch circuit 19
40474	RO	Max. demand for P, Branch circuit 19
40475	RO	Power factor, Branch circuit 19
40476	RO	Q, Branch circuit 19
40477	RO	THD for I, Branch circuit 19
40478	RO	kWh (low word), Branch circuit 19
40479	RO	kWh (high word), Branch circuit 19
40480	RO	kvarh (low word), Branch circuit 19
40481	RO	kvarh (high word), Branch circuit 19

40482	RO	I, Branch circuit 20	
40483	RO	I_max, Branch circuit 20	
40484	RO	Demand for I, Branch circuit 20	
40485	RO	Max. demand for I, Branch circuit 20	
40486	RO	P, Branch circuit 20	
40487	RO	Demand for P, Branch circuit 20	
40488	RO	Max. demand for P, Branch circuit 20	
40489	RO	Power factor, Branch circuit 20	
40490	RO	Q, Branch circuit 20	
40491	RO	THD for I, Branch circuit 20	
40492	RO	kWh (low word), Branch circuit 20	
40493	RO	kWh (high word), Branch circuit 20	
40494	RO	kvarh (low word), Branch circuit 20	
40495	RO	kvarh (high word), Branch circuit 20	
40496	RO	I, Branch circuit 21	
40497	RO	I_max, Branch circuit 21	
40498	RO	Demand for I, Branch circuit 21	
40499	RO	Max. demand for I, Branch circuit 21	
40500	RO	P, Branch circuit 21	
40501	RO	Demand for P, Branch circuit 21	
40502	RO	Max. demand for P, Branch circuit 21	
40503	RO	Power factor, Branch circuit 21	
40504	RO	Q, Branch circuit 21	
40505	RO	THD for I, Branch circuit 21	
40506	RO	kWh (low word), Branch circuit 21	
40507	RO	kWh (high word), Branch circuit 21	
40508	RO	kvarh (low word), Branch circuit 21	

40509	RO	kvarh (high word), Branch circuit 21	
40510	RO	I, Branch circuit 22	
40511	RO	I_max, Branch circuit 22	
40512	RO	Demand for I, Branch circuit 22	
40513	RO	Max. demand for I, Branch circuit 22	
40514	RO	P, Branch circuit 22	
40515	RO	Demand for P, Branch circuit 22	
40516	RO	Max. demand for P, Branch circuit 22	
40517	RO	Power factor, Branch circuit 22	
40518	RO	Q, Branch circuit 22	
40519	RO	THD for I, Branch circuit 22	
40520	RO	kWh (low word), Branch circuit 22	
40521	RO	kWh (high word), Branch circuit 22	
40522	RO	kvarh (low word), Branch circuit 22	
40523	RO	kvarh (high word), Branch circuit 22	
40524	RO	I, Branch circuit 23	
40525	RO	I_max, Branch circuit 23	
40526	RO	Demand for I, Branch circuit 23	
40527	RO	Max. demand for I, Branch circuit 23	
40528	RO	P, Branch circuit 23	
40529	RO	Demand for P, Branch circuit 23	
40530	RO	Max. demand for P, Branch circuit 23	
40531	RO	Power factor, Branch circuit 23	
40532	RO	Q, Branch circuit 23	
40533	RO	THD for I, Branch circuit 23	
40534	RO	kWh (low word), Branch circuit 23	
40535	RO	kWh (high word), Branch circuit 23	

40536	RO	kvarh (low word), Branch circuit 23
40537	RO	kvarh (high word), Branch circuit 23
40538	RO	I, Branch circuit 24
40539	RO	I_max, Branch circuit 24
40540	RO	Demand for I, Branch circuit 24
40541	RO	Max. demand for I, Branch circuit 24
40542	RO	P, Branch circuit 24
40543	RO	Demand for P, Branch circuit 24
40544	RO	Max. demand for P, Branch circuit 24
40545	RO	Power factor, Branch circuit 24
40546	RO	Q, Branch circuit 24
40547	RO	THD for I, Branch circuit 24
40548	RO	kWh (low word), Branch circuit 24
40549	RO	kWh (high word), Branch circuit 24
40550	RO	kvarh (low word), Branch circuit 24
40551	RO	kvarh (high word), Branch circuit 24
40552	RO	DI and relay output status of main module
40553	RO	DI status of branch circuit 1 ~16, DI module-A
40554	RO	DI status of branch circuit 17~21, DI module-A
40555	RO	DI status of branch circuit 1 ~16, DI module-B
40556	RO	DI status of branch circuit 17~21, DI module-B
40557	RO	I, Branch circuit 25
40558	RO	I_max, Branch circuit 25
40559	RO	Demand for I, Branch circuit 25
40560	RO	Max. demand for I, Branch circuit 25
40561	RO	P, Branch circuit 25
40562	RO	Demand for P, Branch circuit 25

40563	RO	Max. demand for P, Branch circuit 25	
40564	RO	Power factor, Branch circuit 25	
40565	RO	Q, Branch circuit 25	
40566	RO	THD for I, Branch circuit 25	
40567	RO	kWh (low word), Branch circuit 25	
40568	RO	kWh (high word), Branch circuit 25	
40569	RO	kvarh (low word), Branch circuit 25	
40570	RO	kvarh (high word), Branch circuit 25	
40571	RO	I, Branch circuit 26	
40572	RO	I_max, Branch circuit 26	
40573	RO	Demand for I, Branch circuit 26	
40574	RO	Max. demand for I, Branch circuit 26	
40575	RO	P, Branch circuit 26	
40576	RO	Demand for P, Branch circuit 26	
40577	RO	Max. demand for P, Branch circuit 26	
40578	RO	Power factor, Branch circuit 26	
40579	RO	Q, Branch circuit 26	
40580	RO	THD for I, Branch circuit 26	
40581	RO	kWh (low word), Branch circuit 26	
40582	RO	kWh (high word), Branch circuit 26	
40583	RO	kvarh (low word), Branch circuit 26	
40584	RO	kvarh (high word), Branch circuit 26	
40585	RO	I, Branch circuit 27	
40586	RO	I_max, Branch circuit 27	
40587	RO	Demand for I, Branch circuit 27	
40588	RO	Max. demand for I, Branch circuit 27	
40589	RO	P, Branch circuit 27	

40590	RO	Demand for P, Branch circuit 27	
40591	RO	Max. demand for P, Branch circuit 27	
40592	RO	Power factor, Branch circuit 27	
40593	RO	Q, Branch circuit 27	
40594	RO	THD for I, Branch circuit 27	
40595	RO	kWh (low word), Branch circuit 27	
40596	RO	kWh (high word), Branch circuit 27	
40597	RO	kvarh (low word), Branch circuit 27	
40598	RO	kvarh (high word), Branch circuit 27	
40599	RO	I, Branch circuit 28	
40600	RO	I_max, Branch circuit 28	
40601	RO	Demand for I, Branch circuit 28	
40602	RO	Max. demand for I, Branch circuit 28	
40603	RO	P, Branch circuit 28	
40604	RO	Demand for P, Branch circuit 28	
40605	RO	Max. demand for P, Branch circuit 28	
40606	RO	Power factor, Branch circuit 28	
40607	RO	Q, Branch circuit 28	
40608	RO	THD for I, Branch circuit 28	
40609	RO	kWh (low word), Branch circuit 28	
40610	RO	kWh (high word), Branch circuit 28	
40611	RO	kvarh (low word), Branch circuit 28	
40612	RO	kvarh (high word), Branch circuit 28	
40613	RO	I, Branch circuit 29	
40614	RO	I_max, Branch circuit 29	
40615	RO	Demand for I, Branch circuit 29	
40616	RO	Max. demand for I, Branch circuit 29	

40617	RO	P, Branch circuit 29	
40618	RO	Demand for P, Branch circuit 29	
40619	RO	Max. demand for P, Branch circuit 29	
40620	RO	Power factor, Branch circuit 29	
40621	RO	Q, Branch circuit 29	
40622	RO	THD for I, Branch circuit 29	
40623	RO	kWh (low word), Branch circuit 29	
40624	RO	kWh (high word), Branch circuit 29	
40625	RO	kvarh (low word), Branch circuit 29	
40626	RO	kvarh (high word), Branch circuit 29	
40627	RO	I, Branch circuit 30	
40628	RO	I_max, Branch circuit 30	
40629	RO	Demand for I, Branch circuit 30	
40630	RO	Max. demand for I, Branch circuit 30	
40631	RO	P, Branch circuit 30	
40632	RO	Demand for P, Branch circuit 30	
40633	RO	Max. demand for P, Branch circuit 30	
40634	RO	Power factor, Branch circuit 30	
40635	RO	Q, Branch circuit 30	
40636	RO	THD for I, Branch circuit 30	
40637	RO	kWh (low word), Branch circuit 30	
40638	RO	kWh (high word), Branch circuit 30	
40639	RO	kvarh (low word), Branch circuit 30	
40640	RO	kvarh (high word), Branch circuit 30	
40641	RO	DI and relay output status of main module	
40642	RO	DI status of branch circuit 1 ~16, DI module-A	
40643	RO	DI status of branch circuit 17~21, DI module-A	

40644	RO	DI status of branch circuit 1 ~16, DI module-B
40645	RO	DI status of branch circuit 17~21, DI module-B
40646	RO	I, Branch circuit 31
40647	RO	I_max, Branch circuit 31
40648	RO	Demand for I, Branch circuit 31
40649	RO	Max. demand for I, Branch circuit 31
40650	RO	P, Branch circuit 31
40651	RO	Demand for P, Branch circuit 31
40652	RO	Max. demand for P, Branch circuit 31
40653	RO	Power factor, Branch circuit 31
40654	RO	Q, Branch circuit 31
40655	RO	THD for I, Branch circuit 31
40656	RO	kWh (low word), Branch circuit 31
40657	RO	kWh (high word), Branch circuit 31
40658	RO	kvarh (low word), Branch circuit 31
40659	RO	kvarh (high word), Branch circuit 31
40660	RO	I, Branch circuit 32
40661	RO	I_max, Branch circuit 32
40662	RO	Demand for I, Branch circuit 32
40663	RO	Max. demand for I, Branch circuit 32
40664	RO	P, Branch circuit 32
40665	RO	Demand for P, Branch circuit 32
40666	RO	Max. demand for P, Branch circuit 32
40667	RO	Power factor, Branch circuit 32
40668	RO	Q, Branch circuit 32
40669	RO	THD for I, Branch circuit 32
40670	RO	kWh (low word), Branch circuit 32

40671	RO	kWh (high word), Branch circuit 32	
40672	RO	kvarh (low word), Branch circuit 32	
40673	RO	kvarh (high word), Branch circuit 32	
40674	RO	I, Branch circuit 33	
40675	RO	I_max, Branch circuit 33	
40676	RO	Demand for I, Branch circuit 33	
40677	RO	Max. demand for I, Branch circuit 33	
40678	RO	P, Branch circuit 33	
40679	RO	Demand for P, Branch circuit 33	
40680	RO	Max. demand for P, Branch circuit 33	
40681	RO	Power factor, Branch circuit 33	
40682	RO	Q, Branch circuit 33	
40683	RO	THD for I, Branch circuit 33	
40684	RO	kWh (low word), Branch circuit 33	
40685	RO	kWh (high word), Branch circuit 33	
40686	RO	kvarh (low word), Branch circuit 33	
40687	RO	kvarh (high word), Branch circuit 33	
40688	RO	I, Branch circuit 34	
40689	RO	I_max, Branch circuit 34	
40690	RO	Demand for I, Branch circuit 34	
40691	RO	Max. demand for I, Branch circuit 34	
40692	RO	P, Branch circuit 34	
40693	RO	Demand for P, Branch circuit 34	
40694	RO	Max. demand for P, Branch circuit 34	
40695	RO	Power factor, Branch circuit 34	
40696	RO	Q, Branch circuit 34	
40697	RO	THD for I, Branch circuit 34	

40698	RO	kWh (low word), Branch circuit 34	
40699	RO	kWh (high word), Branch circuit 34	
40700	RO	kvarh (low word), Branch circuit 34	
40701	RO	kvarh (high word), Branch circuit 34	
40702	RO	I, Branch circuit 35	
40703	RO	I_max, Branch circuit 35	
40704	RO	Demand for I, Branch circuit 35	
40705	RO	Max. demand for I, Branch circuit 35	
40706	RO	P, Branch circuit 35	
40707	RO	Demand for P, Branch circuit 35	
40708	RO	Max. demand for P, Branch circuit 35	
40709	RO	Power factor, Branch circuit 35	
40710	RO	Q, Branch circuit 35	
40711	RO	THD for I, Branch circuit 35	
40712	RO	kWh (low word), Branch circuit 35	
40713	RO	kWh (high word), Branch circuit 35	
40714	RO	kvarh (low word), Branch circuit 35	
40715	RO	kvarh (high word), Branch circuit 35	
40716	RO	I, Branch circuit 36	
40717	RO	I_max, Branch circuit 36	
40718	RO	Demand for I, Branch circuit 36	
40719	RO	Max. demand for I, Branch circuit 36	
40720	RO	P, Branch circuit 36	
40721	RO	Demand for P, Branch circuit 36	
40722	RO	Max. demand for P, Branch circuit 36	
40723	RO	Power factor, Branch circuit 36	
40724	RO	Q, Branch circuit 36	

40725	RO	THD for I, Branch circuit 36	
40726	RO	kWh (low word), Branch circuit 36	
40727	RO	kWh (high word), Branch circuit 36	
40728	RO	kvarh (low word), Branch circuit 36	
40729	RO	kvarh (high word), Branch circuit 36	
40730	RO	DI and relay output status of main module	
40731	RO	DI status of branch circuit 1 ~16, DI module-A	
40732	RO	DI status of branch circuit 17~21, DI module-A	
40733	RO	DI status of branch circuit 1 ~16, DI module-B	
40734	RO	DI status of branch circuit 17~21, DI module-B	
40735	RO	I, Branch circuit 37	
40736	RO	I_max, Branch circuit 37	
40737	RO	Demand for I, Branch circuit 37	
40738	RO	Max. demand for I, Branch circuit 37	
40739	RO	P, Branch circuit 37	
40740	RO	Demand for P, Branch circuit 37	
40741	RO	Max. demand for P, Branch circuit 37	
40742	RO	Power factor, Branch circuit 37	
40743	RO	Q, Branch circuit 37	
40744	RO	THD for I, Branch circuit 37	
40745	RO	kWh (low word), Branch circuit 37	
40746	RO	kWh (high word), Branch circuit 37	
40747	RO	kvarh (low word), Branch circuit 37	
40748	RO	kvarh (high word), Branch circuit 37	
40749	RO	I, Branch circuit 38	
40750	RO	I_max, Branch circuit 38	
40751	RO	Demand for I, Branch circuit 38	

40752	RO	Max. demand for I, Branch circuit 38	
40753	RO	P, Branch circuit 38	
40754	RO	Demand for P, Branch circuit 38	
40755	RO	Max. demand for P, Branch circuit 38	
40756	RO	Power factor, Branch circuit 38	
40757	RO	Q, Branch circuit 38	
40758	RO	THD for I, Branch circuit 38	
40759	RO	kWh (low word), Branch circuit 38	
40760	RO	kWh (high word), Branch circuit 38	
40761	RO	kvarh (low word), Branch circuit 38	
40762	RO	kvarh (high word), Branch circuit 38	
40763	RO	I, Branch circuit 39	
40764	RO	I_max, Branch circuit 39	
40765	RO	Demand for I, Branch circuit 39	
40766	RO	Max. demand for I, Branch circuit 39	
40767	RO	P, Branch circuit 39	
40768	RO	Demand for P, Branch circuit 39	
40769	RO	Max. demand for P, Branch circuit 39	
40770	RO	Power factor, Branch circuit 39	
40771	RO	Q, Branch circuit 39	
40772	RO	THD for I, Branch circuit 39	
40773	RO	kWh (low word), Branch circuit 39	
40774	RO	kWh (high word), Branch circuit 39	
40775	RO	kvarh (low word), Branch circuit 39	
40776	RO	kvarh (high word), Branch circuit 39	
40777	RO	I, Branch circuit 40	
40778	RO	I_max, Branch circuit 40	

40779	RO	Demand for I, Branch circuit 40	
40780	RO	Max. demand for I, Branch circuit 40	
40781	RO	P, Branch circuit 40	
40782	RO	Demand for P, Branch circuit 40	
40783	RO	Max. demand for P, Branch circuit 40	
40784	RO	Power factor, Branch circuit 40	
40785	RO	Q, Branch circuit 40	
40786	RO	THD for I, Branch circuit 40	
40787	RO	kWh (low word), Branch circuit 40	
40788	RO	kWh (high word), Branch circuit 40	
40789	RO	kvarh (low word), Branch circuit 40	
40790	RO	kvarh (high word), Branch circuit 40	
40791	RO	I, Branch circuit 41	
40792	RO	I_max, Branch circuit 41	
40793	RO	Demand for I, Branch circuit 41	
40794	RO	Max. demand for I, Branch circuit 41	
40795	RO	P, Branch circuit 41	
40796	RO	Demand for P, Branch circuit 41	
40797	RO	Max. demand for P, Branch circuit 41	
40798	RO	Power factor, Branch circuit 41	
40799	RO	Q, Branch circuit 41	
40800	RO	THD for I, Branch circuit 41	
40801	RO	kWh (low word), Branch circuit 41	
40802	RO	kWh (high word), Branch circuit 41	
40803	RO	kvarh (low word), Branch circuit 41	
40804	RO	kvarh (high word), Branch circuit 41	
40805	RO	I, Branch circuit 42	

40806	RO	I_max, Branch circuit 42	
40807	RO	Demand for I, Branch circuit 42	
40808	RO	Max. demand for I, Branch circuit 42	
40809	RO	P, Branch circuit 42	
40810	RO	Demand for P, Branch circuit 42	
40811	RO	Max. demand for P, Branch circuit 42	
40812	RO	Power factor, Branch circuit 42	
40813	RO	Q, Branch circuit 42	
40814	RO	THD for I, Branch circuit 42	
40815	RO	kWh (low word), Branch circuit 42	
40816	RO	kWh (high word), Branch circuit 42	
40817	RO	kvarh (low word), Branch circuit 42	
40818	RO	kvarh (high word), Branch circuit 42	
40819	RO	DI and relay output status of main module	
40820	RO	DI status of branch circuit 1 ~16, DI module-A	
40821	RO	DI status of branch circuit 17~21, DI module-A	
40822	RO	DI status of branch circuit 1 ~16, DI module-B	
40823	RO	DI status of branch circuit 17~21, DI module-B	
40824	RO	Reserved	
40825	RO	Reserved	

5.4 Current Registers for Fast Tracking

Register address	Property	Definition	Remarks
40901	RO	Phase A Current of Main circuit	
40902	RO	Phase B Current of Main circuit	
40903	RO	Phase C Current of Main circuit	

40904	RO	Current of Branch circuit 1	
40905	RO	Current of Branch circuit 2	
40906	RO	Current of Branch circuit 3	
40907	RO	Current of Branch circuit 4	
40908	RO	Current of Branch circuit 5	
40909	RO	Current of Branch circuit 6	
40910	RO	Current of Branch circuit 7	
40911	RO	Current of Branch circuit 8	
40912	RO	Current of Branch circuit 9	
40913	RO	Current of Branch circuit 10	
40914	RO	Current of Branch circuit 11	
40915	RO	Current of Branch circuit 12	
40916	RO	Current of Branch circuit 13	
40917	RO	Current of Branch circuit 14	
40918	RO	Current of Branch circuit 15	
40919	RO	Current of Branch circuit 16	
40920	RO	Current of Branch circuit 17	
40921	RO	Current of Branch circuit 18	
40922	RO	Current of Branch circuit 19	
40923	RO	Current of Branch circuit 20	
40924	RO	Current of Branch circuit 21	
40925	RO	Current of Branch circuit 22	
40926	RO	Current of Branch circuit 23	
40927	RO	Current of Branch circuit 24	
40928	RO	Current of Branch circuit 25	
40929	RO	Current of Branch circuit 26	
40930	RO	Current of Branch circuit 27	
L	I.	i	

40931	RO	Current of Branch circuit 28	
40932	RO	Current of Branch circuit 29	
40933	RO	Current of Branch circuit 30	
40934	RO	Current of Branch circuit 31	
40935	RO	Current of Branch circuit 32	
40936	RO	Current of Branch circuit 33	
40937	RO	Current of Branch circuit 34	
40938	RO	Current of Branch circuit 35	
40939	RO	Current of Branch circuit 36	
40940	RO	Current of Branch circuit 37	
40941	RO	Current of Branch circuit 38	
40942	RO	Current of Branch circuit 39	
40943	RO	Current of Branch circuit 40	
40944	RO	Current of Branch circuit 41	
40945	RO	Current of Branch circuit 42	

5.5 Device Configuration Registers

Register address	Property	Definition	Remarks
42001	RW	Device address	
			0-1200
			1-2400
42002	RW	Baud Rate of RS485 Port 3	2-4800
42002			3-9600
			4-19200
			5-38400
42003	RW	CT ratio of Main circuit	

			0 means universal relay,
			1 means working indicate,
42004	RW	Relay 1 function	2 means alarm output,
			3 means main circuit alarm output,
			4 means branch circuit alarm output
			0 means universal relay,
			1 means working indicate,
42005	RW	Relay 2 function	2 means alarm output,
			3 means main circuit alarm output,
			4 means branch circuit alarm output
			0: universal switch signal
42006	RW	DI 1 function of main module	1: digital input of Main circuit
			2: SPD
			0: universal switch signal
42007	RW	DI 2 function of main module	1: digital input of Main circuit
			2: SPD
			0: universal switch signal
42008	RW	DI 3 function of main module	1: digital input of Main circuit
			2: SPD
			0: universal switch signal
42009	RW	DI 4 function of main module	1: digital input of Main circuit
			2: SPD
			0: Main circuit;
			1: Branch circuit 1;
42010	RW	RW Energy pulse output circuit selection	2: Branch circuit 2;
			3: Branch circuit 3
	l		

			42: Branch circuit42;
42011	RW	Energy pulse constant	Main circuit set:1000~9999,
42011		Energy pulse constant	Branch circuit is fixed: 1000
<mark>42012</mark>	RW	Energy pulse width	60~100ms
42013	RW	DI alarm	0: NO; 1:Yes
42014	RW	Reserved	
42015	RW	Reserved	
42016	RW	Current low-low-limit value, Main circuit	
42017	RW	Current low-limit value, Main circuit	
42018	RW	Current high-limit value, Main circuit	
42019	RW	Current high-high limit value, Main circuit	
42020	RW	Neutral current high-limit value	
<mark>42021</mark>	RW	Current unbalance alarm	
42022	RW	Voltage low-limit value, Main circuit	
42023	RW	Voltage high-limit value, Main circuit	
42024	RW	Leakage current high-limit value	
42025	RW	Temperature high-limit value	
42026	RW	Neutral-earth voltage high-limit value	
42027	RW	Current low-low-limit value, Branch circuit 1	
42028	RW	Current low-limit value, Branch circuit 1	

42029	RW	Current high-limit value, Branch circuit 1	
42030	RW	Current high-high-limit value, Branch circuit 1	
42031	RW	Current low-low-limit value, Branch circuit 2	
42032	RW	Current low-limit value, Branch circuit 2	
42033	RW	Current high-limit value, Branch circuit 2	
42034	RW	Current high-high-limit value, Branch circuit 2	
42035	RW	Current low-low-limit value, Branch circuit 3	
42036	RW	Current low-limit value, Branch circuit 3	
42037	RW	Current high-limit value, Branch circuit 3	
42038	RW	Current high-high-limit value, Branch circuit 3	
42039	RW	Current low-low-limit value, Branch circuit 4	
42040	RW	Current low-limit value, Branch circuit 4	
42041	RW	Current high-limit value, Branch circuit 4	
42042	RW	Current high-high-limit value, Branch circuit 4	
42043	RW	Current low-low-limit value, Branch circuit 5	
42044	RW	Current low-limit value, Branch circuit 5	

42045	RW	Current high-limit value, Branch circuit 5	
42046	RW	Current high-high-limit value, Branch circuit 5	
42047	RW	Current low-low-limit value, Branch circuit 6	
42048	RW	Current low-limit value, Branch circuit 6	
42049	RW	Current high-limit value, Branch circuit 6	
42050	RW	Current high-high-limit value, Branch circuit 6	
42051	RW	Current low-low-limit value, Branch circuit 7	
42052	RW	Current low-limit value, Branch circuit 7	
42053	RW	Current high-limit value, Branch circuit 7	
42054	RW	Current high-high-limit value, Branch circuit 7	
42055	RW	Current low-low-limit value, Branch circuit 8	
42056	RW	Current low-limit value, Branch circuit 8	
42057	RW	Current high-limit value, Branch circuit 8	
42058	RW	Current high-high-limit value, Branch circuit 8	
42059	RW	Current low-low-limit value, Branch circuit 9	
42060	RW	Current low-limit value, Branch circuit 9	

42061	RW	Current high-limit value, Branch circuit 9	
42062	RW	Current high-high-limit value, Branch circuit 9	
42063	RW	Current low-low-limit value, Branch circuit 10	
42064	RW	Current low-limit value, Branch circuit 10	
42065	RW	Current high-limit value, Branch circuit 10	
42066	RW	Current high-high-limit value, Branch circuit 10	
42067	RW	Current low-low-limit value, Branch circuit 11	
42068	RW	Current low-limit value, Branch circuit 11	
42069	RW	Current high-limit value, Branch circuit 11	
42070	RW	Current high-high-limit value, Branch circuit 11	
42071	RW	Current low-low-limit value, Branch circuit 12	
42072	RW	Current low-limit value, Branch circuit 12	
42073	RW	Current high-limit value, Branch circuit 12	
42074	RW	Current high-high-limit value, Branch circuit 12	
42075	RW	Current low-low-limit value, Branch circuit 13	
42076	RW	Current low-limit value, Branch circuit 13	

42077	RW	Current high-limit value, Branch circuit 13	
42078	RW	Current high-high-limit value, Branch circuit 13	
42079	RW	Current low-low-limit value, Branch circuit 14	
42080	RW	Current low-limit value, Branch circuit 14	
42081	RW	Current high-limit value, Branch circuit 14	
42082	RW	Current high-high-limit value, Branch circuit 14	
42083	RW	Current low-low-limit value, Branch circuit 15	
42084	RW	Current low-limit value, Branch circuit 15	
42085	RW	Current high-limit value, Branch circuit 15	
42086	RW	Current high-high-limit value, Branch circuit 15	
42087	RW	Current low-low-limit value, Branch circuit 16	
42088	RW	Current low-limit value, Branch circuit 16	
42089	RW	Current high-limit value, Branch circuit 16	
42090	RW	Current high-high-limit value, Branch circuit 16	
42091	RW	Current low-low-limit value, Branch circuit 17	
42092	RW	Current low-limit value, Branch circuit 17	

RW	Current high-limit value, Branch circuit 17	
RW	Current high-high-limit value, Branch circuit 17	
RW	Current low-low-limit value, Branch circuit 18	
RW	Current low-limit value, Branch circuit 18	
RW	Current high-limit value, Branch circuit 18	
RW	Current high-high-limit value, Branch circuit 18	
RW	Current low-low-limit value, Branch circuit 19	
RW	Current low-limit value, Branch circuit 19	
RW	Current high-limit value, Branch circuit 19	
RW	Current high-high-limit value, Branch circuit 19	
RW	Current low-low-limit value, Branch circuit 20	
RW	Current low-limit value, Branch circuit 20	
RW	Current high-limit value, Branch circuit 20	
RW	Current high-high-limit value, Branch circuit 20	
RW	Current low-low-limit value, Branch circuit 21	
RW	Current low-limit value, Branch circuit 21	
	RW	RW Current high-high-limit value, Branch circuit 17 RW Current low-low-limit value, Branch circuit 18 RW Current low-limit value, Branch circuit 18 RW Current high-limit value, Branch circuit 18 RW Current high-high-limit value, Branch circuit 18 RW Current low-low-limit value, Branch circuit 19 RW Current low-low-limit value, Branch circuit 19 RW Current high-high-limit value, Branch circuit 19 RW Current high-high-limit value, Branch circuit 19 RW Current high-high-limit value, Branch circuit 19 RW Current low-low-limit value, Branch circuit 20 RW Current low-limit value, Branch circuit 20 RW Current high-high-limit value, Branch circuit 20 RW Current high-high-limit value, Branch circuit 20 RW Current high-high-limit value, Branch circuit 20 RW Current low-low-limit value, Branch circuit 21

42109	RW	Current high-limit value, Branch circuit 21	
42110	RW	Current high-high-limit value, Branch circuit 21	
42111	RW	Current low-low-limit value, Branch circuit 22	
42112	RW	Current low-limit value, Branch circuit 22	
42113	RW	Current high-limit value, Branch circuit 22	
42114	RW	Current high-high-limit value, Branch circuit 22	
42115	RW	Current low-low-limit value, Branch circuit 23	
42116	RW	Current low-limit value, Branch circuit 23	
42117	RW	Current high-limit value, Branch circuit 23	
42118	RW	Current high-high-limit value, Branch circuit 23	
42119	RW	Current low-low-limit value, Branch circuit 24	
42120	RW	Current low-limit value, Branch circuit 24	
42121	RW	Current high-limit value, Branch circuit 24	
42122	RW	Current high-high-limit value, Branch circuit 24	
42123	RW	Current low-low-limit value, Branch circuit 25	
42124	RW	Current low-limit value, Branch circuit 25	

42125	RW	Current high-limit value, Branch circuit 25	
42126	RW	Current high-high-limit value, Branch circuit 25	
42127	RW	Current low-low-limit value, Branch circuit 26	
42128	RW	Current low-limit value, Branch circuit 26	
42129	RW	Current high-limit value, Branch circuit 26	
42130	RW	Current high-high-limit value, Branch circuit 26	
42131	RW	Current low-low-limit value, Branch circuit 27	
42132	RW	Current low-limit value, Branch circuit 27	
42133	RW	Current high-limit value, Branch circuit 27	
42134	RW	Current high-high-limit value, Branch circuit 27	
42135	RW	Current low-low-limit value, Branch circuit 28	
42136	RW	Current low-limit value, Branch circuit 28	
42137	RW	Current high-limit value, Branch circuit 28	
42138	RW	Current high-high-limit value, Branch circuit 28	
42139	RW	Current low-low-limit value, Branch circuit 29	
42140	RW	Current low-limit value, Branch circuit 29	

42141	RW	Current high-limit value, Branch circuit 29	
42142	RW	Current high-high-limit value, Branch circuit 29	
42143	RW	Current low-low-limit value, Branch circuit 30	
42144	RW	Current low-limit value, Branch circuit 30	
42145	RW	Current high-limit value, Branch circuit 30	
42146	RW	Current high-high-limit value, Branch circuit 30	
42147	RW	Current low-low-limit value, Branch circuit 31	
42148	RW	Current low-limit value, Branch circuit 31	
42149	RW	Current high-limit value, Branch circuit 31	
42150	RW	Current high-high-limit value, Branch circuit 31	
42151	RW	Current low-low-limit value, Branch circuit 32	
42152	RW	Current low-limit value, Branch circuit 32	
42153	RW	Current high-limit value, Branch circuit 32	
42154	RW	Current high-high-limit value, Branch circuit 32	
42155	RW	Current low-low-limit value, Branch circuit 33	
42156	RW	Current low-limit value, Branch circuit 33	

42157	RW	Current high-limit value, Branch circuit 33	
42158	RW	Current high-high-limit value, Branch circuit 33	
42159	RW	Current low-low-limit value, Branch circuit 34	
42160	RW	Current low-limit value, Branch circuit 34	
42161	RW	Current high-limit value, Branch circuit 34	
42162	RW	Current high-high-limit value, Branch circuit 34	
42163	RW	Current low-low-limit value, Branch circuit 35	
42164	RW	Current low-limit value, Branch circuit 35	
42165	RW	Current high-limit value, Branch circuit 35	
42166	RW	Current high-high-limit value, Branch circuit 35	
42167	RW	Current low-low-limit value, Branch circuit 36	
42168	RW	Current low-limit value, Branch circuit 36	
42169	RW	Current high-limit value, Branch circuit 36	
42170	RW	Current high-high-limit value, Branch circuit 36	
42171	RW	Current low-low-limit value, Branch circuit 37	
42172	RW	Current low-limit value, Branch circuit 37	

RW	Current high-limit value, Branch circuit 37	
RW	Current high-high-limit value, Branch circuit 37	
RW	Current low-low-limit value, Branch circuit 38	
RW	Current low-limit value, Branch circuit 38	
RW	Current high-limit value, Branch circuit 38	
RW	Current high-high-limit value, Branch circuit 38	
RW	Current low-low-limit value, Branch circuit 39	
RW	Current low-limit value, Branch circuit 39	
RW	Current high-limit value, Branch circuit 39	
RW	Current high-high-limit value, Branch circuit 39	
RW	Current low-low-limit value, Branch circuit 40	
RW	Current low-limit value, Branch circuit 40	
RW	Current high-limit value, Branch circuit 40	
RW	Current high-high-limit value, Branch circuit 40	
RW	Current low-low-limit value, Branch circuit 41	
RW	Current low-limit value, Branch circuit 41	
	RW	RW Current high-high-limit value, Branch circuit 37 RW Current low-low-limit value, Branch circuit 38 RW Current low-limit value, Branch circuit 38 RW Current high-limit value, Branch circuit 38 RW Current high-high-limit value, Branch circuit 38 RW Current low-low-limit value, Branch circuit 39 RW Current low-limit value, Branch circuit 39 RW Current high-high-limit value, Branch circuit 39 RW Current high-high-limit value, Branch circuit 39 RW Current high-high-limit value, Branch circuit 39 RW Current low-low-limit value, Branch circuit 40 RW Current low-limit value, Branch circuit 40 RW Current high-limit value, Branch circuit 40 RW Current high-limit value, Branch circuit 40 RW Current high-high-limit value, Branch circuit 40 RW Current high-high-limit value, Branch circuit 40 RW Current low-low-limit value, Branch circuit 41

42189	RW	Current high-limit value, Branch circuit 41		
42190	RW	Current high-high-limit value, Branch circuit 41		
42191	RW	Current low-low-limit value, Branch circuit 42		
42192	RW	Current low-limit value, Branch circuit 42		
42193	RW	Current high-limit value, Branch circuit 42		
42194	RW	Current high-high-limit value, Branch circuit 42		
42195	RW	Reserved		
			BitOSwitch status S1 Alarm Model	
	RW	W Income circuit switch status (ON-OFF)S1-S Alarm model	Bit1Switch status S2 Alarm Model	
40100			Bit2Switch status S3 Alarm Model	
42196			Bit3Switch status S4 Alarm Model	
				"0" is OFF status alarm mod
			"1" is ON status alarm model	
42197	RW	Frequency low-limit alarm value		
42198	RW	Frequency high-limit alarm value		
42199	RW	Reserved		
42200	RW	Reserved		
42201	RW	Reserved		
			0: 50A	
<mark>42202</mark>	RW	W 1 st group CT config	1: 100A	
12202		. group or coming	2: 200A	
			3:400A	

			4:600A
			5:25
			CT ratio multiplied by 1, 2, 4, 8,12
			Note:
			when register value is 0-2 or 5, calculate ratio of branch circuit active power/reactive power/active demand is 1, unit is W and var;
			When register value is 3-4, calculate ratio is 10 and unit is W and var.
42203	RW	2 nd group CT config	
42204	RW	3 rd group CT config	
42205	RW	4 th group CT config	
42206	RW	5 th group CT config	
42207	RW	6 th group CT config	
42208	RW	7 th group CT config	
42209	RW	8 th group CT config	
42210	RW	9 th group CT config	
42211	RW	10 th group CT config	
42212	RW	11th group CT config	
42213	RW	12 th group CT config	
42214	RW	13 th group CT config	
42215	RW	14 th group CT config	
			bit8-bit11, bit4-bit7, bit0-bit3;
	RW 1 st grow		0phase A ;
42216		1 st group CT phase position	1phase B;
12210		config	config
			For example:
			0x012 means ABC sequence,

			0x021 means ACB sequence;
42217	RW	2 nd group CT phase position	
		config 3rd group CT phase position	
42218	RW	config	
42219	RW	4 th group CT phase position config	
42220	RW	5 th group CT phase position config	
42221	RW	6 th group CT phase position config	
42222	RW	7 th group CT phase position config	
42223	RW	8 th group CT phase position config	
42224	RW	9 th group CT phase position config	
42225	RW	10 th group CT phase position config	
42226	RW	11 th group CT phase position config	
42227	RW	12 th group CT phase position config	
42228	RW	13 th group CT phase position config	
42229	RW	14 th group CT phase position config	
42230	RW	Reserved	
42231	RW	Reserved	
42232	RW	Reserved	
42233	RW	Reserved	

42234	RW	Reserved	
42235	RW	Reserved	
42236	RW	Reserved	
42237	RW	Reserved	
42238	RW	Reserved	
42239	RW	Reserved	
<mark>42240</mark>	RW	Device model No. (low word)	Password: 201
<mark>42241</mark>	RW	Device model No. (high word)	
<mark>42242</mark>	RW	Device S/N No. (low word)	
<mark>42243</mark>	RW	Device S/N No. (high word)	
<mark>42244</mark>	RW	Hardward version No.	
<mark>42245</mark>	RW	Software version No.	
			Bit0-bit2: quantity of CT module
			(1 means one module,
			3 means two modules);
			bit3: DI module
			(0 means No, 1 means Yes);
42246	RW	Hardware configuration	bit4: neutral-earth voltage
			(0 means No, 1 means Yes);
			bit5: Temperature
			(0 means No, 1 means Yes);
			bit6: Leakage current measurement
			(0 means No, 1 means Yes).
			0: GMT,
42247	RW	Time zone set	1~12: Eastern Time Zone +1~+12;
			13~24: Western Time Zone +1~+12
42248	RW	Reserved	

42249	RW	Reserved	
42250	RW	Reserved	
42251	RW	Reserved	
42252	RW	Reserved	
42253	RW	Reserved	
42254	RW	Reserved	
42255	RW	Reserved	
42256	RW	Reserved	
42257	RW	Reserved	
42258	RW	Reserved	
42259	RW	Reserved	
42260	RW	Reserved	

5.6 Control Command Register

Register address	Property	Definition	Remarks
43001	RW	Clear energy	Write 1 to clear, password: 201
43002	RW	Reserved	
43003	RW	Clear max. value	Write 1 to clear current, Clear max. demand use the password: 201
43004	RW	Reserved	
43005	RW	Reserved	
43006	RW	Reserved	
43007	RW	GMT (low word)	//UNIX sytem timing, Write the register 43007 and 43008 at the same time
43008	RW	GMT (high word)	
43009	RW	Reserved	

43010	RW	Reserved	
43011	RW	Year set	//year/month/day/minute/second timing, Write register 43011 to 43016 at the same time
43012	RW	Month set	
43013	RW	Day set	
43014	RW	Hour set	
43015	RW	Minute set	
43016	RW	Second set	
43017	RW	Reserved	
43018	RW	Reserved	
43019	RW	Reserved	

5.7 Histrical Yearly kWh Data Register

Register address	Property	Definition	Remarks
46001	RO	Last 1 st year	The kWh data of last 1st year, eg: If now is the year of 2012, then it shows the kWh of the year of 2011,and so on.
46002	RO	Month	12 months
46003	RO	kWh (low word), main circuit, last 1 st year	
46004	RO	kWh (high word), main circuit, last 1 st year	
46005	RO	kWh (low word), branch circuit 1, last 1 st year	
46006	RO	kWh (high word), branch circuit 1, last 1 st year	
46007	RO	kWh (low word), branch circuit 2, last 1 st year	
46008	RO	kWh (high word), branch circuit 2, last 1 st year	

46009	RO	kWh (low word), branch circuit 3, last 1 st year
46010	RO	kWh (high word), branch circuit 3, last 1 st year
46011	RO	kWh (low word), branch circuit 4, last 1 st year
46012	RO	kWh (high word), branch circuit 4, last 1 st year
46013	RO	kWh (low word), branch circuit 5, last 1 st year
46014	RO	kWh (high word), branch circuit 5, last 1 st year
46015	RO	kWh (low word), branch circuit 6, last 1 st year
46016	RO	kWh (high word), branch circuit 6, last 1 st year
46017	RO	kWh (low word), branch circuit 7, last 1 st year
46018	RO	kWh (high word), branch circuit 7, last 1st year
46019	RO	kWh (low word), branch circuit 8, last 1 st year
46020	RO	kWh (high word), branch circuit 8, last 1 st year
46021	RO	kWh (low word), branch circuit 9, last 1 st year
46022	RO	kWh (high word), branch circuit 9, last 1 st year
46023	RO	kWh (low word), branch circuit 10, last 1 st year
46024	RO	kWh (high word), branch circuit 10, last 1 st year
46025	RO	kWh (low word), branch circuit 11, last 1 st year
46026	RO	kWh (high word), branch circuit 11, last 1 st year
46027	RO	kWh (low word), branch circuit 12, last 1st year
46028	RO	kWh (high word), branch circuit 12, last 1 st year
46029	RO	kWh (low word), branch circuit 13, last 1 st year
46030	RO	kWh (high word), branch circuit 13, last 1 st year
46031	RO	kWh (low word), branch circuit 14, last 1 st year
46032	RO	kWh (high word), branch circuit 14, last 1 st year
46033	RO	kWh (low word), branch circuit 15, last 1 st year
46034	RO	kWh (high word), branch circuit 15, last 1 st year
46035	RO	kWh (low word), branch circuit 16, last 1 st year

46036	RO	kWh (high word), branch circuit 16, last 1 st year
46037	RO	kWh (low word), branch circuit 17, last 1 st year
46038	RO	kWh (high word), branch circuit 17, last 1 st year
46039	RO	kWh (low word), branch circuit 18, last 1 st year
46040	RO	kWh (high word), branch circuit 18, last 1 st year
46041	RO	kWh (low word), branch circuit 19, last 1 st year
46042	RO	kWh (high word), branch circuit 19, last 1 st year
46043	RO	kWh (low word), branch circuit 20, last 1 st year
46044	RO	kWh (high word), branch circuit 20, last 1 st year
46045	RO	kWh (low word), branch circuit 21, last 1 st year
46046	RO	kWh (high word), branch circuit 21, last 1 st year
46047	RO	kWh (low word), branch circuit 22, last 1 st year
46048	RO	kWh (high word), branch circuit 22, last 1 st year
46049	RO	kWh (low word), branch circuit 23, last 1 st year
46050	RO	kWh (high word), branch circuit 23, last 1 st year
46051	RO	kWh (low word), branch circuit 24, last 1 st year
46052	RO	kWh (high word), branch circuit 24, last 1 st year
46053	RO	kWh (low word), branch circuit 25, last 1 st year
46054	RO	kWh (high word), branch circuit 25, last 1 st year
46055	RO	kWh (low word), branch circuit 26, last 1 st year
46056	RO	kWh (high word), branch circuit 26, last 1 st year
46057	RO	kWh (low word), branch circuit 27, last 1 st year
46058	RO	kWh (high word), branch circuit 27, last 1 st year
46059	RO	kWh (low word), branch circuit 28, last 1 st year
46060	RO	kWh (high word), branch circuit 28, last 1 st year
46061	RO	kWh (low word), branch circuit 29, last 1 st year
46062	RO	kWh (high word), branch circuit 29, last 1 st year

46063	RO	kWh (low word), branch circuit 30, last 1st year	
46064	RO	kWh (high word), branch circuit 30, last 1 st year	
46065	RO	kWh (low word), branch circuit 31, last 1st year	
46066	RO	kWh (high word), branch circuit 31, last 1 st year	
46067	RO	kWh (low word), branch circuit 32, last 1 st year	
46068	RO	kWh (high word), branch circuit 32, last 1 st year	
46069	RO	kWh (low word), branch circuit 33, last 1 st year	
46070	RO	kWh (high word), branch circuit 33, last 1 st year	
46071	RO	kWh (low word), branch circuit 34, last 1 st year	
46072	RO	kWh (high word), branch circuit 34, last 1 st year	
46073	RO	kWh (low word), branch circuit 35, last 1 st year	
46074	RO	kWh (high word), branch circuit 35, last 1 st year	
46075	RO	kWh (low word), branch circuit 36, last 1st year	
46076	RO	kWh (high word), branch circuit 36, last 1 st year	
46077	RO	kWh (low word), branch circuit 37, last 1st year	
46078	RO	kWh (high word), branch circuit 37, last 1 st year	
46079	RO	kWh (low word), branch circuit 38, last 1 st year	
46080	RO	kWh (high word), branch circuit 38, last 1 st year	
46081	RO	kWh (low word), branch circuit 39, last 1st year	
46082	RO	kWh (high word), branch circuit 39, last 1 st year	
46083	RO	kWh (low word), branch circuit 40, last 1 st year	
46084	RO	kWh (high word), branch circuit 40, last 1 st year	
46085	RO	kWh (low word), branch circuit 41, last 1st year	
46086	RO	kWh (high word), branch circuit 41, last 1 st year	
46087	RO	kWh (low word), branch circuit 42, last 1st year	
46088	RO	kWh (high word), branch circuit 42, last 1 st year	
46089	RO	Last 2 nd year	

46090	RO	Month
46091	RO	kWh (low word), main circuit, last 2 nd year
46092	RO	kWh (high word), main circuit, last 2 nd year
46093	RO	kWh (low word), branch circuit 1, last 2 nd year
46094	RO	kWh (high word), branch circuit 1, last 2 nd year
46095	RO	kWh (low word), branch circuit 2, last 2 nd year
46096	RO	kWh (high word), branch circuit 2, last 2 nd year
46097	RO	kWh (low word), branch circuit 3, last 2 nd year
46098	RO	kWh (high word), branch circuit 3, last 2 nd year
46099	RO	kWh (low word), branch circuit 4, last 2 nd year
46100	RO	kWh (high word), branch circuit 4, last 2 nd year
46101	RO	kWh (low word), branch circuit 5, last 2 nd year
46102	RO	kWh (high word), branch circuit 5, last 2 nd year
46103	RO	kWh (low word), branch circuit 6, last 2 nd year
46104	RO	kWh (high word), branch circuit 6, last 2 nd year
46105	RO	kWh (low word), branch circuit 7, last 2 nd year
46106	RO	kWh (high word), branch circuit 7, last 2 nd year
46107	RO	kWh (low word), branch circuit 8, last 2 nd year
46108	RO	kWh (high word), branch circuit 8, last 2 nd year
46109	RO	kWh (low word), branch circuit 9, last 2 nd year
46110	RO	kWh (high word), branch circuit 9, last 2 nd year
46111	RO	kWh (low word), branch circuit 10, last 2 nd year
46112	RO	kWh (high word), branch circuit 10, last 2 nd year
46113	RO	kWh (low word), branch circuit 11, last 2 nd year
46114	RO	kWh (high word), branch circuit 11, last 2 nd year
46115	RO	kWh (low word), branch circuit 12, last 2 nd year
46116	RO	kWh (high word), branch circuit 12, last 2 nd year

46117	RO	kWh (low word), branch circuit 13, last 2 nd year
46118	RO	kWh (high word), branch circuit 13, last 2 nd year
46119	RO	kWh (low word), branch circuit 14, last 2 nd year
46120	RO	kWh (high word), branch circuit 14, last 2 nd year
46121	RO	kWh (low word), branch circuit 15, last 2 nd year
46122	RO	kWh (high word), branch circuit 15, last 2 nd year
46123	RO	kWh (low word), branch circuit 16, last 2 nd year
46124	RO	kWh (high word), branch circuit 16, last 2 nd year
46125	RO	kWh (low word), branch circuit 17, last 2 nd year
46126	RO	kWh (high word), branch circuit 17, last 2 nd year
46127	RO	kWh (low word), branch circuit 18, last 2 nd year
46128	RO	kWh (high word), branch circuit 18, last 2 nd year
46129	RO	kWh (low word), branch circuit 19, last 2 nd year
46130	RO	kWh (high word), branch circuit 19, last 2 nd year
46131	RO	kWh (low word), branch circuit 20, last 2 nd year
46132	RO	kWh (high word), branch circuit 20, last 2 nd year
46133	RO	kWh (low word), branch circuit 21, last 2 nd year
46134	RO	kWh (high word), branch circuit 21, last 2 nd year
46135	RO	kWh (low word), branch circuit 22, last 2 nd year
46136	RO	kWh (high word), branch circuit 22, last 2 nd year
46137	RO	kWh (low word), branch circuit 23, last 2 nd year
46138	RO	kWh (high word), branch circuit 23, last 2 nd year
46139	RO	kWh (low word), branch circuit 24, last 2 nd year
46140	RO	kWh (high word), branch circuit 24, last 2 nd year
46141	RO	kWh (low word), branch circuit 25, last 2 nd year
46142	RO	kWh (high word), branch circuit 25, last 2 nd year
46143	RO	kWh (low word), branch circuit 26, last 2 nd year

46144	RO	kWh (high word), branch circuit 26, last 2 nd year
46145	RO	kWh (low word), branch circuit 27, last 2 nd year
46146	RO	kWh (high word), branch circuit 27, last 2 nd year
46147	RO	kWh (low word), branch circuit 28, last 2 nd year
46148	RO	kWh (high word), branch circuit 28, last 2 nd year
46149	RO	kWh (low word), branch circuit 29, last 2 nd year
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46151	RO	kWh (low word), branch circuit 30, last 2 nd year
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46153	RO	kWh (low word), branch circuit 31, last 2 nd year
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46155	RO	kWh (low word), branch circuit 32, last 2 nd year
46156	RO	kWh (high word), branch circuit 32, last 2 nd year
46157	RO	kWh (low word), branch circuit 33, last 2 nd year
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46159	RO	kWh (low word), branch circuit 34, last 2 nd year
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46161	RO	kWh (low word), branch circuit 35, last 2 nd year
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46163	RO	kWh (low word), branch circuit 36, last 2 nd year
46164	RO	kWh (high word), branch circuit 36, last 2 nd year
46165	RO	kWh (low word), branch circuit 37, last 2 nd year
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46167	RO	kWh (low word), branch circuit 38, last 2 nd year
46168	RO	kWh (high word), branch circuit 38, last 2 nd year
46169	RO	kWh (low word), branch circuit 39, last 2 nd year
46170	RO	kWh (high word), branch circuit 39, last 2 nd year

46171	RO	kWh (low word), branch circuit 40, last 2 nd year	
46172	RO	kWh (high word), branch circuit 40, last 2 nd year	
46173	RO	kWh (low word), branch circuit 41, last 2 nd year	
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46175	RO	kWh (low word), branch circuit 42, last 2 nd year	
46176	RO	kWh (high word), branch circuit 42, last 2 nd year	
46177	RO	Last 3 rd year	
46178	RO	Month	
46179	RO	kWh (low word), main circuit, last 3 rd year	
46180	RO	kWh (high word), main circuit, last 3 rd year	
46181	RO	kWh (low word), branch circuit 1, last 3 rd year	
46182	RO	kWh (high word), branch circuit 1, last 3 rd year	
46183	RO	kWh (low word), branch circuit 2, last 3 rd year	
46184	RO	kWh (high word), branch circuit 2, last 3 rd year	
46185	RO	kWh (low word), branch circuit 3, last 3 rd year	
46186	RO	kWh (high word), branch circuit 3, last 3 rd year	
46187	RO	kWh (low word), branch circuit 4, last 3 rd year	
46188	RO	kWh (high word), branch circuit 4, last 3 rd year	
46189	RO	kWh (low word), branch circuit 5, last 3 rd year	
46190	RO	kWh (high word), branch circuit 5, last 3 rd year	
46191	RO	kWh (low word), branch circuit 6, last 3 rd year	
46192	RO	kWh (high word), branch circuit 6, last 3 rd year	
46193	RO	kWh (low word), branch circuit 7, last 3 rd year	
46194	RO	kWh (high word), branch circuit 7, last 3 rd year	
46195	RO	kWh (low word), branch circuit 8, last 3 rd year	
46196	RO	kWh (high word), branch circuit 8, last 3 rd year	
46197	RO	kWh (low word), branch circuit 9, last 3 rd year	
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46198	RO	kWh (high word), branch circuit 9, last 3 rd year
46199	RO	kWh (low word), branch circuit 10, last 3 rd year
46200	RO	kWh (high word), branch circuit 10, last 3 rd year
46201	RO	kWh (low word), branch circuit 11, last 3 rd year
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46203	RO	kWh (low word), branch circuit 12, last 3 rd year
46204	RO	kWh (high word), branch circuit 12, last 3 rd year
46205	RO	kWh (low word), branch circuit 13, last 3 rd year
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46207	RO	kWh (low word), branch circuit 14, last 3 rd year
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46209	RO	kWh (low word), branch circuit 15, last 3 rd year
46210	RO	kWh (high word), branch circuit 15, last 3 rd year
46211	RO	kWh (low word), branch circuit 16, last 3 rd year
46212	RO	kWh (high word), branch circuit 16, last 3 rd year
46213	RO	kWh (low word), branch circuit 17, last 3 rd year
46214	RO	kWh (high word), branch circuit 17, last 3 rd year
46215	RO	kWh (low word), branch circuit 18, last 3 rd year
46216	RO	kWh (high word), branch circuit 18, last 3 rd year
46217	RO	kWh (low word), branch circuit 19, last 3 rd year
46218	RO	kWh (high word), branch circuit 19, last 3 rd year
46219	RO	kWh (low word), branch circuit 20, last 3 rd year
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46221	RO	kWh (low word), branch circuit 21, last 3 rd year
46222	RO	kWh (high word), branch circuit 21, last 3 rd year
46223	RO	kWh (low word), branch circuit 22, last 3 rd year
46224	RO	kWh (high word), branch circuit 22, last 3 rd year

46225	RO	kWh (low word), branch circuit 23, last 3 rd year
46226	RO	kWh (high word), branch circuit 23, last 3 rd year
46227	RO	kWh (low word), branch circuit 24, last 3 rd year
46228	RO	kWh (high word), branch circuit 24, last 3 rd year
46229	RO	kWh (low word), branch circuit 25, last 3 rd year
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46231	RO	kWh (low word), branch circuit 26, last 3 rd year
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46233	RO	kWh (low word), branch circuit 27, last 3 rd year
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46239	RO	kWh (low word), branch circuit 30, last 3 rd year
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46241	RO	kWh (low word), branch circuit 31, last 3 rd year
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46244	RO	kWh (high word), branch circuit 32, last 3 rd year
46245	RO	kWh (low word), branch circuit 33, last 3 rd year
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46247	RO	kWh (low word), branch circuit 34, last 3 rd year
46248	RO	kWh (high word), branch circuit 34, last 3 rd year
46249	RO	kWh (low word), branch circuit 35, last 3 rd year
46250	RO	kWh (high word), branch circuit 35, last 3 rd year
46251	RO	kWh (low word), branch circuit 36, last 3 rd year
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	RO	kWh (high word), branch circuit 36, last 3 rd year	
46253	RO	kWh (low word), branch circuit 37, last 3 rd year	
46254	RO	kWh (high word), branch circuit 37, last 3 rd year	
46255	RO	kWh (low word), branch circuit 38, last 3 rd year	
46256	RO	kWh (high word), branch circuit 38, last 3 rd year	
46257	RO	kWh (low word), branch circuit 39, last 3 rd year	
46258	RO	kWh (high word), branch circuit 39, last 3 rd year	
46259	RO	kWh (low word), branch circuit 40, last 3 rd year	
46260	RO	kWh (high word), branch circuit 40, last 3 rd year	
46261	RO	kWh (low word), branch circuit 41, last 3 rd year	
46262	RO	kWh (high word), branch circuit 41, last 3 rd year	
46263	RO	kWh (low word), branch circuit 42, last 3 rd year	
46264	RO	kWh (high word), branch circuit 42, last 3 rd year	
46265	RO	Last 4 th year	
46266	RO	Month	
46267	RO	kWh (low word), main circuit, last 4 th year	
46267 46268	RO RO	kWh (low word), main circuit, last 4 th year kWh (high word), main circuit, last 4 th year	
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46268	RO	kWh (high word), main circuit, last 4 th year	
46268 46269	RO RO	kWh (high word), main circuit, last 4 th year kWh (low word), branch circuit 1, last 4 th year	
46268 46269 46270	RO RO	kWh (high word), main circuit, last 4 th year kWh (low word), branch circuit 1, last 4 th year kWh (high word), branch circuit 1, last 4 th year	
46268 46269 46270 46271	RO RO RO	kWh (high word), main circuit, last 4 th year kWh (low word), branch circuit 1, last 4 th year kWh (high word), branch circuit 1, last 4 th year kWh (low word), branch circuit 2, last 4 th year	
46268 46269 46270 46271 46272	RO RO RO RO	kWh (high word), main circuit, last 4 th year kWh (low word), branch circuit 1, last 4 th year kWh (high word), branch circuit 1, last 4 th year kWh (low word), branch circuit 2, last 4 th year kWh (high word), branch circuit 2, last 4 th year	
46268 46269 46270 46271 46272 46273	RO RO RO RO RO	kWh (high word), main circuit, last 4 th year kWh (low word), branch circuit 1, last 4 th year kWh (high word), branch circuit 1, last 4 th year kWh (low word), branch circuit 2, last 4 th year kWh (high word), branch circuit 2, last 4 th year kWh (low word), branch circuit 3, last 4 th year	
46268 46269 46270 46271 46272 46273 46274	RO RO RO RO RO RO RO	kWh (high word), main circuit, last 4 th year kWh (low word), branch circuit 1, last 4 th year kWh (high word), branch circuit 1, last 4 th year kWh (low word), branch circuit 2, last 4 th year kWh (high word), branch circuit 2, last 4 th year kWh (low word), branch circuit 3, last 4 th year kWh (high word), branch circuit 3, last 4 th year	
46268 46269 46270 46271 46272 46273 46274 46275	RO RO RO RO RO RO RO RO	kWh (high word), main circuit, last 4 th year kWh (low word), branch circuit 1, last 4 th year kWh (high word), branch circuit 1, last 4 th year kWh (low word), branch circuit 2, last 4 th year kWh (high word), branch circuit 2, last 4 th year kWh (low word), branch circuit 3, last 4 th year kWh (high word), branch circuit 3, last 4 th year kWh (low word), branch circuit 4, last 4 th year	
46268 46269 46270 46271 46272 46273 46274 46275 46276	RO RO RO RO RO RO RO RO RO	kWh (high word), main circuit, last 4 th year kWh (low word), branch circuit 1, last 4 th year kWh (high word), branch circuit 1, last 4 th year kWh (low word), branch circuit 2, last 4 th year kWh (high word), branch circuit 2, last 4 th year kWh (low word), branch circuit 3, last 4 th year kWh (high word), branch circuit 3, last 4 th year kWh (low word), branch circuit 4, last 4 th year kWh (high word), branch circuit 4, last 4 th year	

46279	RO	kWh (low word), branch circuit 6, last 4 th year
46280	RO	kWh (high word), branch circuit 6, last 4 th year
46281	RO	kWh (low word), branch circuit 7, last 4 th year
46282	RO	kWh (high word), branch circuit 7, last 4 th year
46283	RO	kWh (low word), branch circuit 8, last 4 th year
46284	RO	kWh (high word), branch circuit 8, last 4 th year
46285	RO	kWh (low word), branch circuit 9, last 4 th year
46286	RO	kWh (high word), branch circuit 9, last 4 th year
46287	RO	kWh (low word), branch circuit 10, last 4 th year
46288	RO	kWh (high word), branch circuit 10, last 4 th year
46289	RO	kWh (low word), branch circuit 11, last 4 th year
46290	RO	kWh (high word), branch circuit 11, last 4 th year
46291	RO	kWh (low word), branch circuit 12, last 4 th year
46292	RO	kWh (high word), branch circuit 12, last 4 th year
46293	RO	kWh (low word), branch circuit 13, last 4 th year
46294	RO	kWh (high word), branch circuit 13, last 4 th year
46295	RO	kWh (low word), branch circuit 14, last 4 th year
46296	RO	kWh (high word), branch circuit 14, last 4 th year
46297	RO	kWh (low word), branch circuit 15, last 4 th year
46298	RO	kWh (high word), branch circuit 15, last 4 th year
46299	RO	kWh (low word), branch circuit 16, last 4 th year
46300	RO	kWh (high word), branch circuit 16, last 4 th year
46301	RO	kWh (low word), branch circuit 17, last 4 th year
46302	RO	kWh (high word), branch circuit 17, last 4 th year
46303	RO	kWh (low word), branch circuit 18, last 4 th year
46304	RO	kWh (high word), branch circuit 18, last 4 th year
46305	RO	kWh (low word), branch circuit 19, last 4 th year

46306	RO	kWh (high word), branch circuit 19, last 4 th year
46307	RO	kWh (low word), branch circuit 20, last 4 th year
46308	RO	kWh (high word), branch circuit 20, last 4 th year
46309	RO	kWh (low word), branch circuit 21, last 4 th year
46310	RO	kWh (high word), branch circuit 21, last 4 th year
46311	RO	kWh (low word), branch circuit 22, last 4 th year
46312	RO	kWh (high word), branch circuit 22, last 4 th year
46313	RO	kWh (low word), branch circuit 23, last 4 th year
46314	RO	kWh (high word), branch circuit 23, last 4 th year
46315	RO	kWh (low word), branch circuit 24, last 4 th year
46316	RO	kWh (high word), branch circuit 24, last 4 th year
46317	RO	kWh (low word), branch circuit 25, last 4 th year
46318	RO	kWh (high word), branch circuit 25, last 4 th year
46319	RO	kWh (low word), branch circuit 26, last 4 th year
46320	RO	kWh (high word), branch circuit 26, last 4 th year
46321	RO	kWh (low word), branch circuit 27, last 4 th year
46322	RO	kWh (high word), branch circuit 27, last 4 th year
46323	RO	kWh (low word), branch circuit 28, last 4 th year
46324	RO	kWh (high word), branch circuit 28, last 4 th year
46325	RO	kWh (low word), branch circuit 29, last 4 th year
46326	RO	kWh (high word), branch circuit 29, last 4 th year
46327	RO	kWh (low word), branch circuit 30, last 4 th year
46328	RO	kWh (high word), branch circuit 30, last 4 th year
46329	RO	kWh (low word), branch circuit 31, last 4 th year
46330	RO	kWh (high word), branch circuit 31, last 4 th year
46331	RO	kWh (low word), branch circuit 32, last 4 th year
46332	RO	kWh (high word), branch circuit 32, last 4 th year
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46333	RO	kWh (low word), branch circuit 33, last 4 th year	
46334	RO	kWh (high word), branch circuit 33, last 4 th year	
46335	RO	kWh (low word), branch circuit 34, last 4 th year	
46336	RO	kWh (high word), branch circuit 34, last 4 th year	
46337	RO	kWh (low word), branch circuit 35, last 4 th year	
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46339	RO	kWh (low word), branch circuit 36, last 4 th year	
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46341	RO	kWh (low word), branch circuit 37, last 4 th year	
46342	RO	kWh (high word), branch circuit 37, last 4 th year	
46343	RO	kWh (low word), branch circuit 38, last 4 th year	
46344	RO	kWh (high word), branch circuit 38, last 4 th year	
46345	RO	kWh (low word), branch circuit 39, last 4 th year	
46346	RO	kWh (high word), branch circuit 39, last 4 th year	
46347	RO	kWh (low word), branch circuit 40, last 4 th year	
46348	RO	kWh (high word), branch circuit 40, last 4 th year	
46349	RO	kWh (low word), branch circuit 41, last 4 th year	
46350	RO	kWh (high word), branch circuit 41, last 4 th year	
46351	RO	kWh (low word), branch circuit 42, last 4 th year	
46352	RO	kWh (high word), branch circuit 42, last 4 th year	
46353	RO	Last 5 th year	
46354	RO	Month	
46355	RO	kWh (low word), main circuit, last 5 th year	
46356	RO	kWh (high word), main circuit, last 5 th year	
46357	RO	kWh (low word), branch circuit 1, last 5 th year	
46358	RO	kWh (high word), branch circuit 1, last 5 th year	
46359	RO	kWh (low word), branch circuit 2, last 5 th year	
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46360	RO	kWh (high word), branch circuit 2, last 5 th year
46361	RO	kWh (low word), branch circuit 3, last 5 th year
46362	RO	kWh (high word), branch circuit 3, last 5 th year
46363	RO	kWh (low word), branch circuit 4, last 5 th year
46364	RO	kWh (high word), branch circuit 4, last 5 th year
46365	RO	kWh (low word), branch circuit 5, last 5 th year
46366	RO	kWh (high word), branch circuit 5, last 5 th year
46367	RO	kWh (low word), branch circuit 6, last 5 th year
46368	RO	kWh (high word), branch circuit 6, last 5 th year
46369	RO	kWh (low word), branch circuit 7, last 5 th year
46370	RO	kWh (high word), branch circuit 7, last 5 th year
46371	RO	kWh (low word), branch circuit 8, last 5 th year
46372	RO	kWh (high word), branch circuit 8, last 5 th year
46373	RO	kWh (low word), branch circuit 9, last 5 th year
46374	RO	kWh (high word), branch circuit 9, last 5 th year
46375	RO	kWh (low word), branch circuit 10, last 5 th year
46376	RO	kWh (high word), branch circuit 10, last 5 th year
46377	RO	kWh (low word), branch circuit 11, last 5 th year
46378	RO	kWh (high word), branch circuit 11, last 5 th year
46379	RO	kWh (low word), branch circuit 12, last 5 th year
46380	RO	kWh (high word), branch circuit 12, last 5 th year
46381	RO	kWh (low word), branch circuit 13, last 5 th year
46382	RO	kWh (high word), branch circuit 13, last 5 th year
46383	RO	kWh (low word), branch circuit 14, last 5 th year
46384	RO	kWh (high word), branch circuit 14, last 5 th year
46385	RO	kWh (low word), branch circuit 15, last 5 th year
46386	RO	kWh (high word), branch circuit 15, last 5 th year
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46387	RO	kWh (low word), branch circuit 16, last 5 th year
46388	RO	kWh (high word), branch circuit 16, last 5 th year
46389	RO	kWh (low word), branch circuit 17, last 5 th year
46390	RO	kWh (high word), branch circuit 17, last 5 th year
46391	RO	kWh (low word), branch circuit 18, last 5 th year
46392	RO	kWh (high word), branch circuit 18, last 5 th year
46393	RO	kWh (low word), branch circuit 19, last 5 th year
46394	RO	kWh (high word), branch circuit 19, last 5 th year
46395	RO	kWh (low word), branch circuit 20, last 5 th year
46396	RO	kWh (high word), branch circuit 20, last 5 th year
46397	RO	kWh (low word), branch circuit 21, last 5 th year
46398	RO	kWh (high word), branch circuit 21, last 5 th year
46399	RO	kWh (low word), branch circuit 22, last 5 th year
46400	RO	kWh (high word), branch circuit 22, last 5 th year
46401	RO	kWh (low word), branch circuit 23, last 5 th year
46402	RO	kWh (high word), branch circuit 23, last 5 th year
46403	RO	kWh (low word), branch circuit 24, last 5 th year
46404	RO	kWh (high word), branch circuit 24, last 5 th year
46405	RO	kWh (low word), branch circuit 25, last 5 th year
46406	RO	kWh (high word), branch circuit 25, last 5 th year
46407	RO	kWh (low word), branch circuit 26, last 5 th year
46408	RO	kWh (high word), branch circuit 26, last 5 th year
46409	RO	kWh (low word), branch circuit 27, last 5 th year
46410	RO	kWh (high word), branch circuit 27, last 5 th year
46411	RO	kWh (low word), branch circuit 28, last 5 th year
46412	RO	kWh (high word), branch circuit 28, last 5 th year
46413	RO	kWh (low word), branch circuit 29, last 5 th year

46414	RO	kWh (high word), branch circuit 29, last 5 th year
46415	RO	kWh (low word), branch circuit 30, last 5 th year
46416	RO	kWh (high word), branch circuit 30, last 5 th year
46417	RO	kWh (low word), branch circuit 31, last 5 th year
46418	RO	kWh (high word), branch circuit 31, last 5 th year
46419	RO	kWh (low word), branch circuit 32, last 5 th year
46420	RO	kWh (high word), branch circuit 32, last 5 th year
46421	RO	kWh (low word), branch circuit 33, last 5 th year
46422	RO	kWh (high word), branch circuit 33, last 5 th year
46423	RO	kWh (low word), branch circuit 34, last 5 th year
46424	RO	kWh (high word), branch circuit 34, last 5 th year
46425	RO	kWh (low word), branch circuit 35, last 5 th year
46426	RO	kWh (high word), branch circuit 35, last 5 th year
46427	RO	kWh (low word), branch circuit 36, last 5 th year
46428	RO	kWh (high word), branch circuit 36, last 5 th year
46429	RO	kWh (low word), branch circuit 37, last 5 th year
46430	RO	kWh (high word), branch circuit 37, last 5 th year
46431	RO	kWh (low word), branch circuit 38, last 5 th year
46432	RO	kWh (high word), branch circuit 38, last 5 th year
46433	RO	kWh (low word), branch circuit 39, last 5 th year
46434	RO	kWh (high word), branch circuit 39, last 5 th year
46435	RO	kWh (low word), branch circuit 40, last 5 th year
46436	RO	kWh (high word), branch circuit 40, last 5 th year
46437	RO	kWh (low word), branch circuit 41, last 5 th year
46438	RO	kWh (high word), branch circuit 41, last 5 th year
46439	RO	kWh (low word), branch circuit 42, last 5 th year
46440	RO	kWh (high word), branch circuit 42, last 5 th year

46441	RO	Last 6 th year	
46442	RO	Month	
46443	RO	kWh (low word), main circuit, last 6 th year	
46444	RO	kWh (high word), main circuit, last 6 th year	
46445	RO	kWh (low word), branch circuit 1, last 6 th year	
46446	RO	kWh (high word), branch circuit 1, last 6 th year	
46447	RO	kWh (low word), branch circuit 2, last 6 th year	
46448	RO	kWh (high word), branch circuit 2, last 6 th year	
46449	RO	kWh (low word), branch circuit 3, last 6 th year	
46450	RO	kWh (high word), branch circuit 3, last 6 th year	
46451	RO	kWh (low word), branch circuit 4, last 6 th year	
46452	RO	kWh (high word), branch circuit 4, last 6 th year	
46453	RO	kWh (low word), branch circuit 5, last 6 th year	
46454	RO	kWh (high word), branch circuit 5, last 6 th year	
46455	RO	kWh (low word), branch circuit 6, last 6 th year	
46456	RO	kWh (high word), branch circuit 6, last 6 th year	
46457	RO	kWh (low word), branch circuit 7, last 6 th year	
46458	RO	kWh (high word), branch circuit 7, last 6 th year	
46459	RO	kWh (low word), branch circuit 8, last 6 th year	
46460	RO	kWh (high word), branch circuit 8, last 6 th year	
46461	RO	kWh (low word), branch circuit 9, last 6 th year	
46462	RO	kWh (high word), branch circuit 9, last 6 th year	
46463	RO	kWh (low word), branch circuit 10, last 6 th year	
46464	RO	kWh (high word), branch circuit 10, last 6 th year	
46465	RO	kWh (low word), branch circuit 11, last 6 th year	
46466	RO	kWh (high word), branch circuit 11, last 6 th year	
46467	RO	kWh (low word), branch circuit 12, last 6 th year	

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46468	RO	kWh (high word), branch circuit 12, last 6 th year
46469	RO	kWh (low word), branch circuit 13, last 6 th year
46470	RO	kWh (high word), branch circuit 13, last 6 th year
46471	RO	kWh (low word), branch circuit 14, last 6 th year
46472	RO	kWh (high word), branch circuit 14, last 6 th year
46473	RO	kWh (low word), branch circuit 15, last 6 th year
46474	RO	kWh (high word), branch circuit 15, last 6 th year
46475	RO	kWh (low word), branch circuit 16, last 6 th year
46476	RO	kWh (high word), branch circuit 16, last 6 th year
46477	RO	kWh (low word), branch circuit 17, last 6 th year
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46479	RO	kWh (low word), branch circuit 18, last 6 th year
46480	RO	kWh (high word), branch circuit 18, last 6 th year
46481	RO	kWh (low word), branch circuit 19, last 6 th year
46482	RO	kWh (high word), branch circuit 19, last 6 th year
46483	RO	kWh (low word), branch circuit 20, last 6 th year
46484	RO	kWh (high word), branch circuit 20, last 6 th year
46485	RO	kWh (low word), branch circuit 21, last 6 th year
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46487	RO	kWh (low word), branch circuit 22, last 6 th year
46488	RO	kWh (high word), branch circuit 22, last 6 th year
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46491	RO	kWh (low word), branch circuit 24, last 6 th year
46492	RO	kWh (high word), branch circuit 24, last 6 th year
46493	RO	kWh (low word), branch circuit 25, last 6 th year
46494	RO	kWh (high word), branch circuit 25, last 6 th year
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46495	RO	kWh (low word), branch circuit 26, last 6 th year
46496	RO	kWh (high word), branch circuit 26, last 6 th year
46497	RO	kWh (low word), branch circuit 27, last 6 th year
46498	RO	kWh (high word), branch circuit 27, last 6 th year
46499	RO	kWh (low word), branch circuit 28, last 6 th year
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46501	RO	kWh (low word), branch circuit 29, last 6 th year
46502	RO	kWh (high word), branch circuit 29, last 6 th year
46503	RO	kWh (low word), branch circuit 30, last 6 th year
46504	RO	kWh (high word), branch circuit 30, last 6 th year
46505	RO	kWh (low word), branch circuit 31, last 6 th year
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46510	RO	kWh (high word), branch circuit 33, last 6 th year
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46521	RO	kWh (low word), branch circuit 39, last 6 th year
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46522	RO	kWh (high word), branch circuit 39, last 6 th year
46523	RO	kWh (low word), branch circuit 40, last 6 th year
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46528	RO	kWh (high word), branch circuit 42, last 6 th year
46529	RO	Last 7 th year
46530	RO	Month
46531	RO	kWh (low word), main circuit, last 7 th year
46532	RO	kWh (high word), main circuit, last 7 th year
46533	RO	kWh (low word), branch circuit 1, last 7 th year
46534	RO	kWh (high word), branch circuit 1, last 7 th year
46535	RO	kWh (low word), branch circuit 2, last 7 th year
46536	RO	kWh (high word), branch circuit 2, last 7 th year
46537	RO	kWh (low word), branch circuit 3, last 7 th year
46538	RO	kWh (high word), branch circuit 3, last 7 th year
46539	RO	kWh (low word), branch circuit 4, last 7 th year
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46547	RO	kWh (low word), branch circuit 8, last 7 th year
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46571	RO	kWh (low word), branch circuit 20, last 7 th year
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46573	RO	kWh (low word), branch circuit 21, last 7 th year
46574	RO	kWh (high word), branch circuit 21, last 7 th year
46575	RO	kWh (low word), branch circuit 22, last 7 th year

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46587	RO	kWh (low word), branch circuit 28, last 7 th year
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46593	RO	kWh (low word), branch circuit 31, last 7 th year
46594	RO	kWh (high word), branch circuit 31, last 7 th year
46595	RO	kWh (low word), branch circuit 32, last 7 th year
46596	RO	kWh (high word), branch circuit 32, last 7 th year
46597	RO	kWh (low word), branch circuit 33, last 7 th year
46598	RO	kWh (high word), branch circuit 33, last 7 th year
46599	RO	kWh (low word), branch circuit 34, last 7 th year
46600	RO	kWh (high word), branch circuit 34, last 7 th year
46601	RO	kWh (low word), branch circuit 35, last 7 th year
46602	RO	kWh (high word), branch circuit 35, last 7 th year
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46603	RO	kWh (low word), branch circuit 36, last 7 th year
46604	RO	kWh (high word), branch circuit 36, last 7 th year
46605	RO	kWh (low word), branch circuit 37, last 7 th year
46606	RO	kWh (high word), branch circuit 37, last 7 th year
46607	RO	kWh (low word), branch circuit 38, last 7 th year
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46611	RO	kWh (low word), branch circuit 40, last 7 th year
46612	RO	kWh (high word), branch circuit 40, last 7 th year
46613	RO	kWh (low word), branch circuit 41, last 7 th year
46614	RO	kWh (high word), branch circuit 41, last 7 th year
46615	RO	kWh (low word), branch circuit 42, last 7 th year
46616	RO	kWh (high word), branch circuit 42, last 7 th year
46617	RO	Last 8 th year
46618	RO	Month
46619	RO	kWh (low word), main circuit, last 8 th year
46620	RO	kWh (high word), main circuit, last 8 th year
46621	RO	kWh (low word), branch circuit 1, last 8 th year
46622	RO	kWh (high word), branch circuit 1, last 8 th year
46623	RO	kWh (low word), branch circuit 2, last 8 th year
46624	RO	kWh (high word), branch circuit 2, last 8 th year
46625	RO	kWh (low word), branch circuit 3, last 8 th year
46626	RO	kWh (high word), branch circuit 3, last 8 th year
46627	RO	kWh (low word), branch circuit 4, last 8 th year
46628	RO	kWh (high word), branch circuit 4, last 8 th year
46629	RO	kWh (low word), branch circuit 5, last 8 th year

46630	RO	kWh (high word), branch circuit 5, last 8 th year
46631	RO	kWh (low word), branch circuit 6, last 8 th year
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46633	RO	kWh (low word), branch circuit 7, last 8 th year
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46635	RO	kWh (low word), branch circuit 8, last 8 th year
46636	RO	kWh (high word), branch circuit 8, last 8 th year
46637	RO	kWh (low word), branch circuit 9, last 8 th year
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46647	RO	kWh (low word), branch circuit 14, last 8 th year
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46649	RO	kWh (low word), branch circuit 15, last 8 th year
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46651	RO	kWh (low word), branch circuit 16, last 8 th year
46652	RO	kWh (high word), branch circuit 16, last 8 th year
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46654	RO	kWh (high word), branch circuit 17, last 8 th year
46655	RO	kWh (low word), branch circuit 18, last 8 th year
46656	RO	kWh (high word), branch circuit 18, last 8 th year
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46657	RO	kWh (low word), branch circuit 19, last 8 th year
46658	RO	kWh (high word), branch circuit 19, last 8 th year
46659	RO	kWh (low word), branch circuit 20, last 8 th year
46660	RO	kWh (high word), branch circuit 20, last 8 th year
46661	RO	kWh (low word), branch circuit 21, last 8 th year
46662	RO	kWh (high word), branch circuit 21, last 8 th year
46663	RO	kWh (low word), branch circuit 22, last 8 th year
46664	RO	kWh (high word), branch circuit 22, last 8 th year
46665	RO	kWh (low word), branch circuit 23, last 8 th year
46666	RO	kWh (high word), branch circuit 23, last 8 th year
46667	RO	kWh (low word), branch circuit 24, last 8 th year
46668	RO	kWh (high word), branch circuit 24, last 8 th year
46669	RO	kWh (low word), branch circuit 25, last 8 th year
46670	RO	kWh (high word), branch circuit 25, last 8 th year
46671	RO	kWh (low word), branch circuit 26, last 8 th year
46672	RO	kWh (high word), branch circuit 26, last 8 th year
46673	RO	kWh (low word), branch circuit 27, last 8 th year
46674	RO	kWh (high word), branch circuit 27, last 8 th year
46675	RO	kWh (low word), branch circuit 28, last 8 th year
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46677	RO	kWh (low word), branch circuit 29, last 8 th year
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46679	RO	kWh (low word), branch circuit 30, last 8 th year
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46682	RO	kWh (high word), branch circuit 31, last 8 th year
46683	RO	kWh (low word), branch circuit 32, last 8 th year
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46684	RO	kWh (high word), branch circuit 32, last 8 th year
46685	RO	kWh (low word), branch circuit 33, last 8 th year
46686	RO	kWh (high word), branch circuit 33, last 8 th year
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46689	RO	kWh (low word), branch circuit 35, last 8 th year
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46691	RO	kWh (low word), branch circuit 36, last 8 th year
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46695	RO	kWh (low word), branch circuit 38, last 8 th year
46696	RO	kWh (high word), branch circuit 38, last 8 th year
46697	RO	kWh (low word), branch circuit 39, last 8 th year
46698	RO	kWh (high word), branch circuit 39, last 8 th year
46699	RO	kWh (low word), branch circuit 40, last 8 th year
46700	RO	kWh (high word), branch circuit 40, last 8 th year
46701	RO	kWh (low word), branch circuit 41, last 8 th year
46702	RO	kWh (high word), branch circuit 41, last 8 th year
46703	RO	kWh (low word), branch circuit 42, last 8 th year
46704	RO	kWh (high word), branch circuit 42, last 8 th year
46705	RO	Last 9 th year
46706	RO	Month
46707	RO	kWh (low word), main circuit, last 9 th year
46708	RO	kWh (high word), main circuit, last 9 th year
46709	RO	kWh (low word), branch circuit 1, last 9 th year
46710	RO	kWh (high word), branch circuit 1, last 9 th year

46711	RO	kWh (low word), branch circuit 2, last 9 th year
46712	RO	kWh (high word), branch circuit 2, last 9 th year
46713	RO	kWh (low word), branch circuit 3, last 9 th year
46714	RO	kWh (high word), branch circuit 3, last 9 th year
46715	RO	kWh (low word), branch circuit 4, last 9 th year
46716	RO	kWh (high word), branch circuit 4, last 9 th year
46717	RO	kWh (low word), branch circuit 5, last 9 th year
46718	RO	kWh (high word), branch circuit 5, last 9 th year
46719	RO	kWh (low word), branch circuit 6, last 9 th year
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46721	RO	kWh (low word), branch circuit 7, last 9 th year
46722	RO	kWh (high word), branch circuit 7, last 9 th year
46723	RO	kWh (low word), branch circuit 8, last 9 th year
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46726	RO	kWh (high word), branch circuit 9, last 9 th year
46727	RO	kWh (low word), branch circuit 10, last 9 th year
46728	RO	kWh (high word), branch circuit 10, last 9 th year
46729	RO	kWh (low word), branch circuit 11, last 9 th year
46730	RO	kWh (high word), branch circuit 11, last 9 th year
46731	RO	kWh (low word), branch circuit 12, last 9 th year
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46733	RO	kWh (low word), branch circuit 13, last 9 th year
46734	RO	kWh (high word), branch circuit 13, last 9 th year
46735	RO	kWh (low word), branch circuit 14, last 9 th year
46736	RO	kWh (high word), branch circuit 14, last 9 th year
46737	RO	kWh (low word), branch circuit 15, last 9 th year
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46738	RO	kWh (high word), branch circuit 15, last 9 th year
46739	RO	kWh (low word), branch circuit 16, last 9 th year
46740	RO	kWh (high word), branch circuit 16, last 9 th year
46741	RO	kWh (low word), branch circuit 17, last 9 th year
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46743	RO	kWh (low word), branch circuit 18, last 9 th year
46744	RO	kWh (high word), branch circuit 18, last 9 th year
46745	RO	kWh (low word), branch circuit 19, last 9 th year
46746	RO	kWh (high word), branch circuit 19, last 9 th year
46747	RO	kWh (low word), branch circuit 20, last 9 th year
46748	RO	kWh (high word), branch circuit 20, last 9 th year
46749	RO	kWh (low word), branch circuit 21, last 9 th year
46750	RO	kWh (high word), branch circuit 21, last 9 th year
46751	RO	kWh (low word), branch circuit 22, last 9 th year
46752	RO	kWh (high word), branch circuit 22, last 9 th year
46753	RO	kWh (low word), branch circuit 23, last 9 th year
46754	RO	kWh (high word), branch circuit 23, last 9 th year
46755	RO	kWh (low word), branch circuit 24, last 9 th year
46756	RO	kWh (high word), branch circuit 24, last 9 th year
46757	RO	kWh (low word), branch circuit 25, last 9 th year
46758	RO	kWh (high word), branch circuit 25, last 9 th year
46759	RO	kWh (low word), branch circuit 26, last 9 th year
46760	RO	kWh (high word), branch circuit 26, last 9 th year
46761	RO	kWh (low word), branch circuit 27, last 9 th year
46762	RO	kWh (high word), branch circuit 27, last 9 th year
46763	RO	kWh (low word), branch circuit 28, last 9 th year
46764	RO	kWh (high word), branch circuit 28, last 9 th year
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46765	RO	kWh (low word), branch circuit 29, last 9 th year
46766	RO	kWh (high word), branch circuit 29, last 9 th year
46767	RO	kWh (low word), branch circuit 30, last 9 th year
46768	RO	kWh (high word), branch circuit 30, last 9 th year
46769	RO	kWh (low word), branch circuit 31, last 9 th year
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46771	RO	kWh (low word), branch circuit 32, last 9 th year
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46773	RO	kWh (low word), branch circuit 33, last 9 th year
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46776	RO	kWh (high word), branch circuit 34, last 9 th year
46777	RO	kWh (low word), branch circuit 35, last 9 th year
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46780	RO	kWh (high word), branch circuit 36, last 9 th year
46781	RO	kWh (low word), branch circuit 37, last 9 th year
46782	RO	kWh (high word), branch circuit 37, last 9 th year
46783	RO	kWh (low word), branch circuit 38, last 9 th year
46784	RO	kWh (high word), branch circuit 38, last 9 th year
46785	RO	kWh (low word), branch circuit 39, last 9 th year
46786	RO	kWh (high word), branch circuit 39, last 9 th year
46787	RO	kWh (low word), branch circuit 40, last 9 th year
46788	RO	kWh (high word), branch circuit 40, last 9 th year
46789	RO	kWh (low word), branch circuit 41, last 9 th year
46790	RO	kWh (high word), branch circuit 41, last 9 th year
46791	RO	kWh (low word), branch circuit 42, last 9 th year
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46792	RO	kWh (high word), branch circuit 42, last 9 th year
46793	RO	Last 10 th year
46794	RO	Month
46795	RO	kWh (low word), main circuit, last 10 th year
46796	RO	kWh (high word), main circuit, last 10 th year
46797	RO	kWh (low word), branch circuit 1, last 10 th year
46798	RO	kWh (high word), branch circuit 1, last 10 th year
46799	RO	kWh (low word), branch circuit 2, last 10 th year
46800	RO	kWh (high word), branch circuit 2, last 10 th year
46801	RO	kWh (low word), branch circuit 3, last 10 th year
46802	RO	kWh (high word), branch circuit 3, last 10 th year
46803	RO	kWh (low word), branch circuit 4, last 10 th year
46804	RO	kWh (high word), branch circuit 4, last 10 th year
46805	RO	kWh (low word), branch circuit 5, last 10 th year
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46809	RO	kWh (low word), branch circuit 7, last 10 th year
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46811	RO	kWh (low word), branch circuit 8, last 10 th year
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46813	RO	kWh (low word), branch circuit 9, last 10 th year
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46815	RO	kWh (low word), branch circuit 10, last 10 th year
46816	RO	kWh (high word), branch circuit 10, last 10 th year
46817	RO	kWh (low word), branch circuit 11, last 10 th year

46818	RO	kWh (high word), branch circuit 11, last 10 th year
46819	RO	kWh (low word), branch circuit 12, last 10 th year
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46824	RO	kWh (high word), branch circuit 14, last 10 th year
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46831	RO	kWh (low word), branch circuit 18, last 10 th year
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46833	RO	kWh (low word), branch circuit 19, last 10 th year
46834	RO	kWh (high word), branch circuit 19, last 10 th year
46835	RO	kWh (low word), branch circuit 20, last 10 th year
46836	RO	kWh (high word), branch circuit 20, last 10 th year
46837	RO	kWh (low word), branch circuit 21, last 10 th year

46838	RO	kWh (high word), branch circuit 21, last 10 th year
46839	RO	kWh (low word), branch circuit 22, last 10 th year
46840	RO	kWh (high word), branch circuit 22, last 10 th year
46841	RO	kWh (low word), branch circuit 23, last 10 th year
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46843	RO	kWh (low word), branch circuit 24, last 10 th year
46844	RO	kWh (high word), branch circuit 24, last 10 th year
46845	RO	kWh (low word), branch circuit 25, last 10 th year
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46847	RO	kWh (low word), branch circuit 26, last 10 th year
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46849	RO	kWh (low word), branch circuit 27, last 10 th year
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46852	RO	kWh (high word), branch circuit 28, last 10 th year
46853	RO	kWh (low word), branch circuit 29, last 10 th year
46854	RO	kWh (high word), branch circuit 29, last 10 th year
46855	RO	kWh (low word), branch circuit 30, last 10 th year
46856	RO	kWh (high word), branch circuit 30, last 10 th year
46857	RO	kWh (low word), branch circuit 31, last 10 th year
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46858	RO	kWh (high word), branch circuit 31, last 10 th year
46859	RO	kWh (low word), branch circuit 32, last 10 th year
46860	RO	kWh (high word), branch circuit 32, last 10 th year
46861	RO	kWh (low word), branch circuit 33, last 10 th year
46862	RO	kWh (high word), branch circuit 33, last 10 th year
46863	RO	kWh (low word), branch circuit 34, last 10 th year
46864	RO	kWh (high word), branch circuit 34, last 10 th year
46865	RO	kWh (low word), branch circuit 35, last 10 th year
46866	RO	kWh (high word), branch circuit 35, last 10 th year
46867	RO	kWh (low word), branch circuit 36, last 10 th year
46868	RO	kWh (high word), branch circuit 36, last 10 th year
46869	RO	kWh (low word), branch circuit 37, last 10 th year
46870	RO	kWh (high word), branch circuit 37, last 10 th year
46871	RO	kWh (low word), branch circuit 38, last 10 th year
46872	RO	kWh (high word), branch circuit 38, last 10 th year
46873	RO	kWh (low word), branch circuit 39, last 10 th year
46874	RO	kWh (high word), branch circuit 39, last 10 th year
46875	RO	kWh (low word), branch circuit 40, last 10 th year
46876	RO	kWh (high word), branch circuit 40, last 10 th year
46877	RO	kWh (low word), branch circuit 41, last 10 th year
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46878	RO	kWh (high word), branch circuit 41, last 10 th year	
46879	RO	kWh (low word), branch circuit 42, last 10 th year	
46880	RO	kWh (high word), branch circuit 42, last 10 th year	

5.8 Histrical Monthly kWh Data Register

Register address	Property	Definition	Remarks
47001	RO	Last 1 st month of the year	The kWh data of last 1st month of the year: eg:If now is Oct, 2012, then it shows the kWh of Sep. 2012, and so on
47002	RO	Month	
47003	RO	kWh (low word), main circuit, last 1st month	
47004	RO	kWh (high word), main circuit, last 1 st month	
47005	RO	kWh (low word), branch circuit 1, last 1st month	
47006	RO	kWh (high word), branch circuit 1, last 1 st month	
47007	RO	kWh (low word), branch circuit 2, last 1st month	
47008	RO	kWh (high word), branch circuit 2, last 1st month	
47009	RO	kWh (low word), branch circuit 3, last 1 st month	
47010	RO	kWh (high word), branch circuit 3, last 1st month	
47011	RO	kWh (low word), branch circuit 4, last 1 st month	
47012	RO	kWh (high word), branch circuit 4, last 1st month	
47013	RO	kWh (low word), branch circuit 5, last 1 st month	
47014	RO	kWh (high word), branch circuit 5, last 1st month	
47015	RO	kWh (low word), branch circuit 6, last 1 st month	
47016	RO	kWh (high word), branch circuit 6, last 1 st month	

47017	RO	kWh (low word), branch circuit 7, last 1 st month
47018	RO	kWh (high word), branch circuit 7, last 1 st month
47019	RO	kWh (low word), branch circuit 8, last 1 st month
47020	RO	kWh (high word), branch circuit 8, last 1 st month
47021	RO	kWh (low word), branch circuit 9, last 1 st month
47022	RO	kWh (high word), branch circuit 9, last 1 st month
47023	RO	kWh (low word), branch circuit 10, last 1 st month
47024	RO	kWh (high word), branch circuit 10, last 1 st month
47025	RO	kWh (low word), branch circuit 11, last 1 st month
47026	RO	kWh (high word), branch circuit 11, last 1st month
47027	RO	kWh (low word), branch circuit 12, last 1 st month
47028	RO	kWh (high word), branch circuit 12, last 1 st month
47029	RO	kWh (low word), branch circuit 13, last 1 st month
47030	RO	kWh (high word), branch circuit 13, last 1 st month
47031	RO	kWh (low word), branch circuit 14, last 1 st month
47032	RO	kWh (high word), branch circuit 14, last 1 st month
47033	RO	kWh (low word), branch circuit 15, last 1 st month
47034	RO	kWh (high word), branch circuit 15, last 1 st month
47035	RO	kWh (low word), branch circuit 16, last 1 st month
47036	RO	kWh (high word), branch circuit 16, last 1 st month
47037	RO	kWh (low word), branch circuit 17, last 1 st month
47038	RO	kWh (high word), branch circuit 17, last 1 st month
47039	RO	kWh (low word), branch circuit 18, last 1 st month
47040	RO	kWh (high word), branch circuit 18, last 1 st month
47041	RO	kWh (low word), branch circuit 19, last 1 st month
47042	RO	kWh (high word), branch circuit 19, last 1 st month
47043	RO	kWh (low word), branch circuit 20, last 1 st month

47044	RO	kWh (high word), branch circuit 20, last 1 st month
47045	RO	kWh (low word), branch circuit 21, last 1 st month
47046	RO	kWh (high word), branch circuit 21, last 1 st month
47047	RO	kWh (low word), branch circuit 22, last 1 st month
47048	RO	kWh (high word), branch circuit 22, last 1 st month
47049	RO	kWh (low word), branch circuit 23, last 1 st month
47050	RO	kWh (high word), branch circuit 23, last 1 st month
47051	RO	kWh (low word), branch circuit 24, last 1 st month
47052	RO	kWh (high word), branch circuit 24, last 1 st month
47053	RO	kWh (low word), branch circuit 25, last 1 st month
47054	RO	kWh (high word), branch circuit 25, last 1 st month
47055	RO	kWh (low word), branch circuit 26, last 1 st month
47056	RO	kWh (high word), branch circuit 26, last 1 st month
47057	RO	kWh (low word), branch circuit 27, last 1 st month
47058	RO	kWh (high word), branch circuit 27, last 1 st month
47059	RO	kWh (low word), branch circuit 28, last 1 st month
47060	RO	kWh (high word), branch circuit 28, last 1 st month
47061	RO	kWh (low word), branch circuit 29, last 1 st month
47062	RO	kWh (high word), branch circuit 29, last 1st month
47063	RO	kWh (low word), branch circuit 30, last 1 st month
47064	RO	kWh (high word), branch circuit 30, last 1 st month
47065	RO	kWh (low word), branch circuit 31, last 1 st month
47066	RO	kWh (high word), branch circuit 31, last 1 st month
47067	RO	kWh (low word), branch circuit 32, last 1 st month
47068	RO	kWh (high word), branch circuit 32, last 1 st month
47069	RO	kWh (low word), branch circuit 33, last 1 st month
47070	RO	kWh (high word), branch circuit 33, last 1 st month
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47071	RO	kWh (low word), branch circuit 34, last 1st month
47072	RO	kWh (high word), branch circuit 34, last 1 st month
47073	RO	kWh (low word), branch circuit 35, last 1 st month
47074	RO	kWh (high word), branch circuit 35, last 1 st month
47075	RO	kWh (low word), branch circuit 36, last 1 st month
47076	RO	kWh (high word), branch circuit 36, last 1 st month
47077	RO	kWh (low word), branch circuit 37, last 1 st month
47078	RO	kWh (high word), branch circuit 37, last 1 st month
47079	RO	kWh (low word), branch circuit 38, last 1 st month
47080	RO	kWh (high word), branch circuit 38, last 1st month
47081	RO	kWh (low word), branch circuit 39, last 1 st month
47082	RO	kWh (high word), branch circuit 39, last 1 st month
47083	RO	kWh (low word), branch circuit 40, last 1 st month
47084	RO	kWh (high word), branch circuit 40, last 1 st month
47085	RO	kWh (low word), branch circuit 41, last 1 st month
47086	RO	kWh (high word), branch circuit 41, last 1 st month
47087	RO	kWh (low word), branch circuit 42, last 1 st month
47088	RO	kWh (high word), branch circuit 42, last 1 st month
47089	RO	Last 2 nd month of the year
47090	RO	Month
47091	RO	kWh (low word), main circuit, last 2 nd month
47092	RO	kWh (high word), main circuit, last 2 nd month
47093	RO	kWh (low word), branch circuit 1, last 2 nd month
47094	RO	kWh (high word), branch circuit 1, last 2 nd month
47095	RO	kWh (low word), branch circuit 2, last 2 nd month
47096	RO	kWh (high word), branch circuit 2, last 2 nd month
47097	RO	kWh (low word), branch circuit 3, last 2 nd month

47098	RO	kWh (high word), branch circuit 3, last 2 nd month	
47099	RO	kWh (low word), branch circuit 4, last 2 nd month	
47100	RO	kWh (high word), branch circuit 4, last 2 nd month	
47101	RO	kWh (low word), branch circuit 5, last 2 nd month	
47102	RO	kWh (high word), branch circuit 5, last 2 nd month	
47103	RO	kWh (low word), branch circuit 6, last 2 nd month	
47104	RO	kWh (high word), branch circuit 6, last 2 nd month	
47105	RO	kWh (low word), branch circuit 7, last 2 nd month	
47106	RO	kWh (high word), branch circuit 7, last 2 nd month	
47107	RO	kWh (low word), branch circuit 8, last 2 nd month	
47108	RO	kWh (high word), branch circuit 8, last 2 nd month	
47109	RO	kWh (low word), branch circuit 9, last 2 nd month	
47110	RO	kWh (high word), branch circuit 9, last 2 nd month	
47111	RO	kWh (low word), branch circuit 10, last 2 nd month	
47112	RO	kWh (high word), branch circuit 10, last 2 nd month	
47113	RO	kWh (low word), branch circuit 11, last 2 nd month	
47114	RO	kWh (high word), branch circuit 11, last 2 nd month	
47115	RO	kWh (low word), branch circuit 12, last 2 nd month	
47116	RO	kWh (high word), branch circuit 12, last 2 nd month	
47117	RO	kWh (low word), branch circuit 13, last 2 nd month	
47118	RO	kWh (high word), branch circuit 13, last 2 nd month	
47119	RO	kWh (low word), branch circuit 14, last 2 nd month	
47120	RO	kWh (high word), branch circuit 14, last 2 nd month	
47121	RO	kWh (low word), branch circuit 15, last 2 nd month	
47122	RO	kWh (high word), branch circuit 15, last 2 nd month	
47123	RO	kWh (low word), branch circuit 16, last 2 nd month	
47124	RO	kWh (high word), branch circuit 16, last 2 nd month	
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47125	RO	kWh (low word), branch circuit 17, last 2 nd month
47126	RO	kWh (high word), branch circuit 17, last 2 nd month
47127	RO	kWh (low word), branch circuit 18, last 2 nd month
47128	RO	kWh (high word), branch circuit 18, last 2 nd month
47129	RO	kWh (low word), branch circuit 19, last 2 nd month
47130	RO	kWh (high word), branch circuit 19, last 2 nd month
47131	RO	kWh (low word), branch circuit 20, last 2 nd month
47132	RO	kWh (high word), branch circuit 20, last 2 nd month
47133	RO	kWh (low word), branch circuit 21, last 2 nd month
47134	RO	kWh (high word), branch circuit 21, last 2 nd month
47135	RO	kWh (low word), branch circuit 22, last 2 nd month
47136	RO	kWh (high word), branch circuit 22, last 2 nd month
47137	RO	kWh (low word), branch circuit 23, last 2 nd month
47138	RO	kWh (high word), branch circuit 23, last 2 nd month
47139	RO	kWh (low word), branch circuit 24, last 2 nd month
47140	RO	kWh (high word), branch circuit 24, last 2 nd month
47141	RO	kWh (low word), branch circuit 25, last 2 nd month
47142	RO	kWh (high word), branch circuit 25, last 2 nd month
47143	RO	kWh (low word), branch circuit 26, last 2 nd month
47144	RO	kWh (high word), branch circuit 26, last 2 nd month
47145	RO	kWh (low word), branch circuit 27, last 2 nd month
47146	RO	kWh (high word), branch circuit 27, last 2 nd month
47147	RO	kWh (low word), branch circuit 28, last 2 nd month
47148	RO	kWh (high word), branch circuit 28, last 2 nd month
47149	RO	kWh (low word), branch circuit 29, last 2 nd month
47150	RO	kWh (high word), branch circuit 29, last 2 nd month
47151	RO	kWh (low word), branch circuit 30, last 2 nd month
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47152	RO	kWh (high word), branch circuit 30, last 2 nd month	
47153	RO	kWh (low word), branch circuit 31, last 2 nd month	
47154	RO	kWh (high word), branch circuit 31, last 2 nd month	
47155	RO	kWh (low word), branch circuit 32, last 2 nd month	
47156	RO	kWh (high word), branch circuit 32, last 2 nd month	
47157	RO	kWh (low word), branch circuit 33, last 2 nd month	
47158	RO	kWh (high word), branch circuit 33, last 2 nd month	
47159	RO	kWh (low word), branch circuit 34, last 2 nd month	
47160	RO	kWh (high word), branch circuit 34, last 2 nd month	
47161	RO	kWh (low word), branch circuit 35, last 2 nd month	
47162	RO	kWh (high word), branch circuit 35, last 2 nd month	
47163	RO	kWh (low word), branch circuit 36, last 2 nd month	
47164	RO	kWh (high word), branch circuit 36, last 2 nd month	
47165	RO	kWh (low word), branch circuit 37, last 2 nd month	
47166	RO	kWh (high word), branch circuit 37, last 2 nd month	
47167	RO	kWh (low word), branch circuit 38, last 2 nd month	
47168	RO	kWh (high word), branch circuit 38, last 2 nd month	
47169	RO	kWh (low word), branch circuit 39, last 2 nd month	
47170	RO	kWh (high word), branch circuit 39, last 2 nd month	
47171	RO	kWh (low word), branch circuit 40, last 2 nd month	
47172	RO	kWh (high word), branch circuit 40, last 2 nd month	
47173	RO	kWh (low word), branch circuit 41, last 2 nd month	
47174	RO	kWh (high word), branch circuit 41, last 2 nd month	
47175	RO	kWh (low word), branch circuit 42, last 2 nd month	
47176	RO	kWh (high word), branch circuit 42, last 2 nd month	
47177	RO	Last 3 rd month of the year	
47178	RO	Month	

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47179	RO	kWh (low word), main circuit, last 3 rd month	
47180	RO	kWh (high word), main circuit, last 3 rd month	
47181	RO	kWh (low word), branch circuit 1, last 3 rd month	
47182	RO	kWh (high word), branch circuit 1, last 3 rd month	
47183	RO	kWh (low word), branch circuit 2, last 3 rd month	
47184	RO	kWh (high word), branch circuit 2, last 3 rd month	
47185	RO	kWh (low word), branch circuit 3, last 3 rd month	
47186	RO	kWh (high word), branch circuit 3, last 3 rd month	
47187	RO	kWh (low word), branch circuit 4, last 3 rd month	
47188	RO	kWh (high word), branch circuit 4, last 3 rd month	
47189	RO	kWh (low word), branch circuit 5, last 3 rd month	
47190	RO	kWh (high word), branch circuit 5, last 3 rd month	
47191	RO	kWh (low word), branch circuit 6, last 3 rd month	
47192	RO	kWh (high word), branch circuit 6, last 3 rd month	
47193	RO	kWh (low word), branch circuit 7, last 3 rd month	
47194	RO	kWh (high word), branch circuit 7, last 3 rd month	
47195	RO	kWh (low word), branch circuit 8, last 3 rd month	
47196	RO	kWh (high word), branch circuit 8, last 3 rd month	
47197	RO	kWh (low word), branch circuit 9, last 3 rd month	
47198	RO	kWh (high word), branch circuit 9, last 3 rd month	
47199	RO	kWh (low word), branch circuit 10, last 3 rd month	
47200	RO	kWh (high word), branch circuit 10, last 3 rd month	
47201	RO	kWh (low word), branch circuit 11, last 3 rd month	
47202	RO	kWh (high word), branch circuit 11, last 3 rd month	
47203	RO	kWh (low word), branch circuit 12, last 3 rd month	
47204	RO	kWh (high word), branch circuit 12, last 3 rd month	
47205	RO	kWh (low word), branch circuit 13, last 3 rd month	
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47206	RO	kWh (high word), branch circuit 13, last 3 rd month
47207	RO	kWh (low word), branch circuit 14, last 3 rd month
47208	RO	kWh (high word), branch circuit 14, last 3 rd month
47209	RO	kWh (low word), branch circuit 15, last 3 rd month
47210	RO	kWh (high word), branch circuit 15, last 3 rd month
47211	RO	kWh (low word), branch circuit 16, last 3 rd month
47212	RO	kWh (high word), branch circuit 16, last 3 rd month
47213	RO	kWh (low word), branch circuit 17, last 3 rd month
47214	RO	kWh (high word), branch circuit 17, last 3 rd month
47215	RO	kWh (low word), branch circuit 18, last 3 rd month
47216	RO	kWh (high word), branch circuit 18, last 3 rd month
47217	RO	kWh (low word), branch circuit 19, last 3 rd month
47218	RO	kWh (high word), branch circuit 19, last 3 rd month
47219	RO	kWh (low word), branch circuit 20, last 3 rd month
47220	RO	kWh (high word), branch circuit 20, last 3 rd month
47221	RO	kWh (low word), branch circuit 21, last 3 rd month
47222	RO	kWh (high word), branch circuit 21, last 3 rd month
47223	RO	kWh (low word), branch circuit 22, last 3 rd month
47224	RO	kWh (high word), branch circuit 22, last 3 rd month
47225	RO	kWh (low word), branch circuit 23, last 3 rd month
47226	RO	kWh (high word), branch circuit 23, last 3 rd month
47227	RO	kWh (low word), branch circuit 24, last 3 rd month
47228	RO	kWh (high word), branch circuit 24, last 3 rd month
47229	RO	kWh (low word), branch circuit 25, last 3 rd month
47230	RO	kWh (high word), branch circuit 25, last 3 rd month
47231	RO	kWh (low word), branch circuit 26, last 3 rd month
47232	RO	kWh (high word), branch circuit 26, last 3 rd month
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47233	RO	kWh (low word), branch circuit 27, last 3 rd month
47234	RO	kWh (high word), branch circuit 27, last 3 rd month
47235	RO	kWh (low word), branch circuit 28, last 3 rd month
47236	RO	kWh (high word), branch circuit 28, last 3 rd month
47237	RO	kWh (low word), branch circuit 29, last 3 rd month
47238	RO	kWh (high word), branch circuit 29, last 3 rd month
47239	RO	kWh (low word), branch circuit 30, last 3 rd month
47240	RO	kWh (high word), branch circuit 30, last 3 rd month
47241	RO	kWh (low word), branch circuit 31, last 3 rd month
47242	RO	kWh (high word), branch circuit 31, last 3 rd month
47243	RO	kWh (low word), branch circuit 32, last 3 rd month
47244	RO	kWh (high word), branch circuit 32, last 3 rd month
47245	RO	kWh (low word), branch circuit 33, last 3 rd month
47246	RO	kWh (high word), branch circuit 33, last 3 rd month
47247	RO	kWh (low word), branch circuit 34, last 3 rd month
47248	RO	kWh (high word), branch circuit 34, last 3 rd month
47249	RO	kWh (low word), branch circuit 35, last 3 rd month
47250	RO	kWh (high word), branch circuit 35, last 3 rd month
47251	RO	kWh (low word), branch circuit 36, last 3 rd month
47252	RO	kWh (high word), branch circuit 36, last 3 rd month
47253	RO	kWh (low word), branch circuit 37, last 3 rd month
47254	RO	kWh (high word), branch circuit 37, last 3 rd month
47255	RO	kWh (low word), branch circuit 38, last 3 rd month
47256	RO	kWh (high word), branch circuit 38, last 3 rd month
47257	RO	kWh (low word), branch circuit 39, last 3 rd month
47258	RO	kWh (high word), branch circuit 39, last 3 rd month
47259	RO	kWh (low word), branch circuit 40, last 3 rd month
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47260	RO	kWh (high word), branch circuit 40, last 3 rd month
47261	RO	kWh (low word), branch circuit 41, last 3 rd month
47262	RO	kWh (high word), branch circuit 41, last 3 rd month
47263	RO	kWh (low word), branch circuit 42, last 3 rd month
47264	RO	kWh (high word), branch circuit 42, last 3 rd month
47265	RO	Last 4 th month of the year
47266	RO	Month
47267	RO	kWh (low word), main circuit, last 4 th month
47268	RO	kWh (high word), main circuit, last 4 th month
47269	RO	kWh (low word), branch circuit 1, last 4 th month
47270	RO	kWh (high word), branch circuit 1, last 4 th month
47271	RO	kWh (low word), branch circuit 2, last 4 th month
47272	RO	kWh (high word), branch circuit 2, last 4 th month
47273	RO	kWh (low word), branch circuit 3, last 4 th month
47274	RO	kWh (high word), branch circuit 3, last 4 th month
47275	RO	kWh (low word), branch circuit 4, last 4 th month
47276	RO	kWh (high word), branch circuit 4, last 4 th month
47277	RO	kWh (low word), branch circuit 5, last 4 th month
47278	RO	kWh (high word), branch circuit 5, last 4 th month
47279	RO	kWh (low word), branch circuit 6, last 4 th month
47280	RO	kWh (high word), branch circuit 6, last 4 th month
47281	RO	kWh (low word), branch circuit 7, last 4 th month
47282	RO	kWh (high word), branch circuit 7, last 4 th month
47283	RO	kWh (low word), branch circuit 8, last 4 th month
47284	RO	kWh (high word), branch circuit 8, last 4 th month
47285	RO	kWh (low word), branch circuit 9, last 4 th month
47286	RO	kWh (high word), branch circuit 9, last 4 th month
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47287	RO	kWh (low word), branch circuit 10, last 4 th month
47288	RO	kWh (high word), branch circuit 10, last 4 th month
47289	RO	kWh (low word), branch circuit 11, last 4 th month
47290	RO	kWh (high word), branch circuit 11, last 4 th month
47291	RO	kWh (low word), branch circuit 12, last 4 th month
47292	RO	kWh (high word), branch circuit 12, last 4 th month
47293	RO	kWh (low word), branch circuit 13, last 4 th month
47294	RO	kWh (high word), branch circuit 13, last 4 th month
47295	RO	kWh (low word), branch circuit 14, last 4 th month
47296	RO	kWh (high word), branch circuit 14, last 4 th month
47297	RO	kWh (low word), branch circuit 15, last 4 th month
47298	RO	kWh (high word), branch circuit 15, last 4 th month
47299	RO	kWh (low word), branch circuit 16, last 4 th month
47300	RO	kWh (high word), branch circuit 16, last 4 th month
47301	RO	kWh (low word), branch circuit 17, last 4 th month
47302	RO	kWh (high word), branch circuit 17, last 4 th month
47303	RO	kWh (low word), branch circuit 18, last 4 th month
47304	RO	kWh (high word), branch circuit 18, last 4 th month
47305	RO	kWh (low word), branch circuit 19, last 4 th month
47306	RO	kWh (high word), branch circuit 19, last 4 th month
47307	RO	kWh (low word), branch circuit 20, last 4 th month
47308	RO	kWh (high word), branch circuit 20, last 4 th month
47309	RO	kWh (low word), branch circuit 21, last 4 th month
47310	RO	kWh (high word), branch circuit 21, last 4 th month
47311	RO	kWh (low word), branch circuit 22, last 4 th month
47312	RO	kWh (high word), branch circuit 22, last 4 th month
47313	RO	kWh (low word), branch circuit 23, last 4 th month
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47314	RO	kWh (high word), branch circuit 23, last 4 th month
47315	RO	kWh (low word), branch circuit 24, last 4 th month
47316	RO	kWh (high word), branch circuit 24, last 4 th month
47317	RO	kWh (low word), branch circuit 25, last 4 th month
47318	RO	kWh (high word), branch circuit 25, last 4 th month
47319	RO	kWh (low word), branch circuit 26, last 4 th month
47320	RO	kWh (high word), branch circuit 26, last 4 th month
47321	RO	kWh (low word), branch circuit 27, last 4 th month
47322	RO	kWh (high word), branch circuit 27, last 4 th month
47323	RO	kWh (low word), branch circuit 28, last 4 th month
47324	RO	kWh (high word), branch circuit 28, last 4 th month
47325	RO	kWh (low word), branch circuit 29, last 4 th month
47326	RO	kWh (high word), branch circuit 29, last 4 th month
47327	RO	kWh (low word), branch circuit 30, last 4 th month
47328	RO	kWh (high word), branch circuit 30, last 4 th month
47329	RO	kWh (low word), branch circuit 31, last 4 th month
47330	RO	kWh (high word), branch circuit 31, last 4 th month
47331	RO	kWh (low word), branch circuit 32, last 4 th month
47332	RO	kWh (high word), branch circuit 32, last 4 th month
47333	RO	kWh (low word), branch circuit 33, last 4 th month
47334	RO	kWh (high word), branch circuit 33, last 4 th month
47335	RO	kWh (low word), branch circuit 34, last 4 th month
47336	RO	kWh (high word), branch circuit 34, last 4 th month
47337	RO	kWh (low word), branch circuit 35, last 4 th month
47338	RO	kWh (high word), branch circuit 35, last 4 th month
47339	RO	kWh (low word), branch circuit 36, last 4 th month
47340	RO	kWh (high word), branch circuit 36, last 4 th month
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47341	RO	kWh (low word), branch circuit 37, last 4 th month	
47342	RO	kWh (high word), branch circuit 37, last 4 th month	
47343	RO	kWh (low word), branch circuit 38, last 4 th month	
47344	RO	kWh (high word), branch circuit 38, last 4 th month	
47345	RO	kWh (low word), branch circuit 39, last 4 th month	
47346	RO	kWh (high word), branch circuit 39, last 4 th month	
47347	RO	kWh (low word), branch circuit 40, last 4 th month	
47348	RO	kWh (high word), branch circuit 40, last 4 th month	
47349	RO	kWh (low word), branch circuit 41, last 4 th month	
47350	RO	kWh (high word), branch circuit 41, last 4th month	
47351	RO	kWh (low word), branch circuit 42, last 4 th month	
47352	RO	kWh (high word), branch circuit 42, last 4 th month	
47353	RO	Last 5 th month of the year	
47354	RO	Month	
47355	RO	kWh (low word), main circuit, last 5 th month	
47356	RO	kWh (high word), main circuit, last 5 th month	
47357	RO	kWh (low word), branch circuit 1, last 5 th month	
47358	RO	kWh (high word), branch circuit 1, last 5 th month	
47359	RO	kWh (low word), branch circuit 2, last 5 th month	
47360	RO	kWh (high word), branch circuit 2, last 5 th month	
47361	RO	kWh (low word), branch circuit 3, last 5 th month	
47362	RO	kWh (high word), branch circuit 3, last 5 th month	
47363	RO	kWh (low word), branch circuit 4, last 5 th month	
47364	RO	kWh (high word), branch circuit 4, last 5 th month	
47365	RO	kWh (low word), branch circuit 5, last 5 th month	
47366	RO	kWh (high word), branch circuit 5, last 5 th month	
47367	RO	kWh (low word), branch circuit 6, last 5 th month	

47368	RO	kWh (high word), branch circuit 6, last 5 th month
47369	RO	kWh (low word), branch circuit 7, last 5 th month
47370	RO	kWh (high word), branch circuit 7, last 5 th month
47371	RO	kWh (low word), branch circuit 8, last 5 th month
47372	RO	kWh (high word), branch circuit 8, last 5 th month
47373	RO	kWh (low word), branch circuit 9, last 5 th month
47374	RO	kWh (high word), branch circuit 9, last 5 th month
47375	RO	kWh (low word), branch circuit 10, last 5 th month
47376	RO	kWh (high word), branch circuit 10, last 5 th month
47377	RO	kWh (low word), branch circuit 11, last 5 th month
47378	RO	kWh (high word), branch circuit 11, last 5 th month
47379	RO	kWh (low word), branch circuit 12, last 5 th month
47380	RO	kWh (high word), branch circuit 12, last 5 th month
47381	RO	kWh (low word), branch circuit 13, last 5 th month
47382	RO	kWh (high word), branch circuit 13, last 5 th month
47383	RO	kWh (low word), branch circuit 14, last 5 th month
47384	RO	kWh (high word), branch circuit 14, last 5 th month
47385	RO	kWh (low word), branch circuit 15, last 5 th month
47386	RO	kWh (high word), branch circuit 15, last 5 th month
47387	RO	kWh (low word), branch circuit 16, last 5 th month
47388	RO	kWh (high word), branch circuit 16, last 5 th month
47389	RO	kWh (low word), branch circuit 17, last 5 th month
47390	RO	kWh (high word), branch circuit 17, last 5 th month
47391	RO	kWh (low word), branch circuit 18, last 5 th month
47392	RO	kWh (high word), branch circuit 18, last 5 th month
47393	RO	kWh (low word), branch circuit 19, last 5 th month
47394	RO	kWh (high word), branch circuit 19, last 5 th month
L		

47395	RO	kWh (low word), branch circuit 20, last 5 th month
47396	RO	kWh (high word), branch circuit 20, last 5 th month
47397	RO	kWh (low word), branch circuit 21, last 5 th month
47398	RO	kWh (high word), branch circuit 21, last 5 th month
47399	RO	kWh (low word), branch circuit 22, last 5 th month
47400	RO	kWh (high word), branch circuit 22, last 5 th month
47401	RO	kWh (low word), branch circuit 23, last 5 th month
47402	RO	kWh (high word), branch circuit 23, last 5 th month
47403	RO	kWh (low word), branch circuit 24, last 5 th month
47404	RO	kWh (high word), branch circuit 24, last 5 th month
47405	RO	kWh (low word), branch circuit 25, last 5 th month
47406	RO	kWh (high word), branch circuit 25, last 5 th month
47407	RO	kWh (low word), branch circuit 26, last 5 th month
47408	RO	kWh (high word), branch circuit 26, last 5 th month
47409	RO	kWh (low word), branch circuit 27, last 5 th month
47410	RO	kWh (high word), branch circuit 27, last 5 th month
47411	RO	kWh (low word), branch circuit 28, last 5 th month
47412	RO	kWh (high word), branch circuit 28, last 5 th month
47413	RO	kWh (low word), branch circuit 29, last 5 th month
47414	RO	kWh (high word), branch circuit 29, last 5 th month
47415	RO	kWh (low word), branch circuit 30, last 5 th month
47416	RO	kWh (high word), branch circuit 30, last 5 th month
47417	RO	kWh (low word), branch circuit 31, last 5 th month
47418	RO	kWh (high word), branch circuit 31, last 5 th month
47419	RO	kWh (low word), branch circuit 32, last 5 th month
47420	RO	kWh (high word), branch circuit 32, last 5 th month
47421	RO	kWh (low word), branch circuit 33, last 5 th month
L		

47422	RO	kWh (high word), branch circuit 33, last 5 th month	
47423	RO	kWh (low word), branch circuit 34, last 5 th month	
47424	RO	kWh (high word), branch circuit 34, last 5 th month	
47425	RO	kWh (low word), branch circuit 35, last 5 th month	
47426	RO	kWh (high word), branch circuit 35, last 5 th month	
47427	RO	kWh (low word), branch circuit 36, last 5 th month	
47428	RO	kWh (high word), branch circuit 36, last 5 th month	
47429	RO	kWh (low word), branch circuit 37, last 5 th month	
47430	RO	kWh (high word), branch circuit 37, last 5 th month	
47431	RO	kWh (low word), branch circuit 38, last 5 th month	
47432	RO	kWh (high word), branch circuit 38, last 5 th month	
47433	RO	kWh (low word), branch circuit 39, last 5 th month	
47434	RO	kWh (high word), branch circuit 39, last 5 th month	
47435	RO	kWh (low word), branch circuit 40, last 5 th month	
47436	RO	kWh (high word), branch circuit 40, last 5 th month	
47437	RO	kWh (low word), branch circuit 41, last 5 th month	
47438	RO	kWh (high word), branch circuit 41, last 5 th month	
47439	RO	kWh (low word), branch circuit 42, last 5 th month	
47440	RO	kWh (high word), branch circuit 42, last 5 th month	
47441	RO	Last 6 th month of the year	
47442	RO	Month	
47443	RO	kWh (low word), main circuit, last 6 th month	
47444	RO	kWh (high word), main circuit, last 6 th month	
47445	RO	kWh (low word), branch circuit 1, last 6 th month	
47446	RO	kWh (high word), branch circuit 1, last 6 th month	
47447	RO	kWh (low word), branch circuit 2, last 6 th month	
47448	RO	kWh (high word), branch circuit 2, last 6 th month	
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47449	RO	kWh (low word), branch circuit 3, last 6 th month
47450	RO	kWh (high word), branch circuit 3, last 6 th month
47451	RO	kWh (low word), branch circuit 4, last 6 th month
47452	RO	kWh (high word), branch circuit 4, last 6 th month
47453	RO	kWh (low word), branch circuit 5, last 6 th month
47454	RO	kWh (high word), branch circuit 5, last 6 th month
47455	RO	kWh (low word), branch circuit 6, last 6 th month
47456	RO	kWh (high word), branch circuit 6, last 6 th month
47457	RO	kWh (low word), branch circuit 7, last 6 th month
47458	RO	kWh (high word), branch circuit 7, last 6 th month
47459	RO	kWh (low word), branch circuit 8, last 6 th month
47460	RO	kWh (high word), branch circuit 8, last 6 th month
47461	RO	kWh (low word), branch circuit 9, last 6 th month
47462	RO	kWh (high word), branch circuit 9, last 6 th month
47463	RO	kWh (low word), branch circuit 10, last 6 th month
47464	RO	kWh (high word), branch circuit 10, last 6 th month
47465	RO	kWh (low word), branch circuit 11, last 6 th month
47466	RO	kWh (high word), branch circuit 11, last 6 th month
47467	RO	kWh (low word), branch circuit 12, last 6 th month
47468	RO	kWh (high word), branch circuit 12, last 6 th month
47469	RO	kWh (low word), branch circuit 13, last 6 th month
47470	RO	kWh (high word), branch circuit 13, last 6 th month
47471	RO	kWh (low word), branch circuit 14, last 6 th month
47472	RO	kWh (high word), branch circuit 14, last 6 th month
47473	RO	kWh (low word), branch circuit 15, last 6 th month
47474	RO	kWh (high word), branch circuit 15, last 6 th month
47475	RO	kWh (low word), branch circuit 16, last 6 th month

47476	RO	kWh (high word), branch circuit 16, last 6 th month
47477	RO	kWh (low word), branch circuit 17, last 6 th month
47478	RO	kWh (high word), branch circuit 17, last 6 th month
47479	RO	kWh (low word), branch circuit 18, last 6 th month
47480	RO	kWh (high word), branch circuit 18, last 6 th month
47481	RO	kWh (low word), branch circuit 19, last 6 th month
47482	RO	kWh (high word), branch circuit 19, last 6 th month
47483	RO	kWh (low word), branch circuit 20, last 6 th month
47484	RO	kWh (high word), branch circuit 20, last 6 th month
47485	RO	kWh (low word), branch circuit 21, last 6 th month
47486	RO	kWh (high word), branch circuit 21, last 6 th month
47487	RO	kWh (low word), branch circuit 22, last 6 th month
47488	RO	kWh (high word), branch circuit 22, last 6 th month
47489	RO	kWh (low word), branch circuit 23, last 6 th month
47490	RO	kWh (high word), branch circuit 23, last 6 th month
47491	RO	kWh (low word), branch circuit 24, last 6 th month
47492	RO	kWh (high word), branch circuit 24, last 6 th month
47493	RO	kWh (low word), branch circuit 25, last 6 th month
47494	RO	kWh (high word), branch circuit 25, last 6 th month
47495	RO	kWh (low word), branch circuit 26, last 6 th month
47496	RO	kWh (high word), branch circuit 26, last 6 th month
47497	RO	kWh (low word), branch circuit 27, last 6 th month
47498	RO	kWh (high word), branch circuit 27, last 6 th month
47499	RO	kWh (low word), branch circuit 28, last 6 th month
47500	RO	kWh (high word), branch circuit 28, last 6 th month
47501	RO	kWh (low word), branch circuit 29, last 6 th month
47502	RO	kWh (high word), branch circuit 29, last 6 th month

47503	RO	kWh (low word), branch circuit 30, last 6 th month	
47504	RO	kWh (high word), branch circuit 30, last 6 th month	
47505	RO	kWh (low word), branch circuit 31, last 6 th month	
47506	RO	kWh (high word), branch circuit 31, last 6 th month	
47507	RO	kWh (low word), branch circuit 32, last 6 th month	
47508	RO	kWh (high word), branch circuit 32, last 6 th month	
47509	RO	kWh (low word), branch circuit 33, last 6 th month	
47510	RO	kWh (high word), branch circuit 33, last 6 th month	
47511	RO	kWh (low word), branch circuit 34, last 6 th month	
47512	RO	kWh (high word), branch circuit 34, last 6 th month	
47513	RO	kWh (low word), branch circuit 35, last 6 th month	
47514	RO	kWh (high word), branch circuit 35, last 6 th month	
47515	RO	kWh (low word), branch circuit 36, last 6 th month	
47516	RO	kWh (high word), branch circuit 36, last 6 th month	
47517	RO	kWh (low word), branch circuit 37, last 6 th month	
47518	RO	kWh (high word), branch circuit 37, last 6 th month	
47519	RO	kWh (low word), branch circuit 38, last 6 th month	
47520	RO	kWh (high word), branch circuit 38, last 6 th month	
47521	RO	kWh (low word), branch circuit 39, last 6 th month	
47522	RO	kWh (high word), branch circuit 39, last 6 th month	
47523	RO	kWh (low word), branch circuit 40, last 6 th month	
47524	RO	kWh (high word), branch circuit 40, last 6 th month	
47525	RO	kWh (low word), branch circuit 41, last 6 th month	
47526	RO	kWh (high word), branch circuit 41, last 6 th month	
47527	RO	kWh (low word), branch circuit 42, last 6 th month	
47528	RO	kWh (high word), branch circuit 42, last 6 th month	
47529	RO	Last 7 th month of the year	

47530	RO	Month
47531	RO	kWh (low word), main circuit, last 7 th month
47532	RO	kWh (high word), main circuit, last 7 th month
47533	RO	kWh (low word), branch circuit 1, last 7 th month
47534	RO	kWh (high word), branch circuit 1, last 7 th month
47535	RO	kWh (low word), branch circuit 2, last 7 th month
47536	RO	kWh (high word), branch circuit 2, last 7 th month
47537	RO	kWh (low word), branch circuit 3, last 7 th month
47538	RO	kWh (high word), branch circuit 3, last 7 th month
47539	RO	kWh (low word), branch circuit 4, last 7 th month
47540	RO	kWh (high word), branch circuit 4, last 7 th month
47541	RO	kWh (low word), branch circuit 5, last 7 th month
47542	RO	kWh (high word), branch circuit 5, last 7 th month
47543	RO	kWh (low word), branch circuit 6, last 7 th month
47544	RO	kWh (high word), branch circuit 6, last 7 th month
47545	RO	kWh (low word), branch circuit 7, last 7 th month
47546	RO	kWh (high word), branch circuit 7, last 7 th month
47547	RO	kWh (low word), branch circuit 8, last 7 th month
47548	RO	kWh (high word), branch circuit 8, last 7 th month
47549	RO	kWh (low word), branch circuit 9, last 7 th month
47550	RO	kWh (high word), branch circuit 9, last 7 th month
47551	RO	kWh (low word), branch circuit 10, last 7 th month
47552	RO	kWh (high word), branch circuit 10, last 7 th month
47553	RO	kWh (low word), branch circuit 11, last 7 th month
47554	RO	kWh (high word), branch circuit 11, last 7 th month
47555	RO	kWh (low word), branch circuit 12, last 7 th month
47556	RO	kWh (high word), branch circuit 12, last 7 th month

47557	RO	kWh (low word), branch circuit 13, last 7 th month
47558	RO	kWh (high word), branch circuit 13, last 7 th month
47559	RO	kWh (low word), branch circuit 14, last 7 th month
47560	RO	kWh (high word), branch circuit 14, last 7 th month
47561	RO	kWh (low word), branch circuit 15, last 7 th month
47562	RO	kWh (high word), branch circuit 15, last 7 th month
47563	RO	kWh (low word), branch circuit 16, last 7 th month
47564	RO	kWh (high word), branch circuit 16, last 7 th month
47565	RO	kWh (low word), branch circuit 17, last 7 th month
47566	RO	kWh (high word), branch circuit 17, last 7 th month
47567	RO	kWh (low word), branch circuit 18, last 7 th month
47568	RO	kWh (high word), branch circuit 18, last 7 th month
47569	RO	kWh (low word), branch circuit 19, last 7 th month
47570	RO	kWh (high word), branch circuit 19, last 7 th month
47571	RO	kWh (low word), branch circuit 20, last 7 th month
47572	RO	kWh (high word), branch circuit 20, last 7 th month
47573	RO	kWh (low word), branch circuit 21, last 7 th month
47574	RO	kWh (high word), branch circuit 21, last 7 th month
47575	RO	kWh (low word), branch circuit 22, last 7 th month
47576	RO	kWh (high word), branch circuit 22, last 7 th month
47577	RO	kWh (low word), branch circuit 23, last 7 th month
47578	RO	kWh (high word), branch circuit 23, last 7 th month
47579	RO	kWh (low word), branch circuit 24, last 7 th month
47580	RO	kWh (high word), branch circuit 24, last 7 th month
47581	RO	kWh (low word), branch circuit 25, last 7 th month
47582	RO	kWh (high word), branch circuit 25, last 7 th month
47583	RO	kWh (low word), branch circuit 26, last 7 th month
L	L	

47584	RO	kWh (high word), branch circuit 26, last 7 th month
47585	RO	kWh (low word), branch circuit 27, last 7 th month
47586	RO	kWh (high word), branch circuit 27, last 7 th month
47587	RO	kWh (low word), branch circuit 28, last 7 th month
47588	RO	kWh (high word), branch circuit 28, last 7 th month
47589	RO	kWh (low word), branch circuit 29, last 7 th month
47590	RO	kWh (high word), branch circuit 29, last 7 th month
47591	RO	kWh (low word), branch circuit 30, last 7 th month
47592	RO	kWh (high word), branch circuit 30, last 7 th month
47593	RO	kWh (low word), branch circuit 31, last 7 th month
47594	RO	kWh (high word), branch circuit 31, last 7 th month
47595	RO	kWh (low word), branch circuit 32, last 7 th month
47596	RO	kWh (high word), branch circuit 32, last 7 th month
47597	RO	kWh (low word), branch circuit 33, last 7 th month
47598	RO	kWh (high word), branch circuit 33, last 7 th month
47599	RO	kWh (low word), branch circuit 34, last 7 th month
47600	RO	kWh (high word), branch circuit 34, last 7 th month
47601	RO	kWh (low word), branch circuit 35, last 7 th month
47602	RO	kWh (high word), branch circuit 35, last 7 th month
47603	RO	kWh (low word), branch circuit 36, last 7 th month
47604	RO	kWh (high word), branch circuit 36, last 7 th month
47605	RO	kWh (low word), branch circuit 37, last 7 th month
47606	RO	kWh (high word), branch circuit 37, last 7 th month
47607	RO	kWh (low word), branch circuit 38, last 7 th month
47608	RO	kWh (high word), branch circuit 38, last 7 th month
47609	RO	kWh (low word), branch circuit 39, last 7 th month
47610	RO	kWh (high word), branch circuit 39, last 7 th month
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		T T T T T T T T T T T T T T T T T T T
47611	RO	kWh (low word), branch circuit 40, last 7 th month
47612	RO	kWh (high word), branch circuit 40, last 7 th month
47613	RO	kWh (low word), branch circuit 41, last 7 th month
47614	RO	kWh (high word), branch circuit 41, last 7 th month
47615	RO	kWh (low word), branch circuit 42, last 7 th month
47616	RO	kWh (high word), branch circuit 42, last 7 th month
47617	RO	Last 8 th month of the year
47618	RO	Month
47619	RO	kWh (low word), main circuit, last 8 th month
47620	RO	kWh (high word), main circuit, last 8 th month
47621	RO	kWh (low word), branch circuit 1, last 8 th month
47622	RO	kWh (high word), branch circuit 1, last 8 th month
47623	RO	kWh (low word), branch circuit 2, last 8 th month
47624	RO	kWh (high word), branch circuit 2, last 8 th month
47625	RO	kWh (low word), branch circuit 3, last 8 th month
47626	RO	kWh (high word), branch circuit 3, last 8 th month
47627	RO	kWh (low word), branch circuit 4, last 8 th month
47628	RO	kWh (high word), branch circuit 4, last 8 th month
47629	RO	kWh (low word), branch circuit 5, last 8 th month
47630	RO	kWh (high word), branch circuit 5, last 8 th month
47631	RO	kWh (low word), branch circuit 6, last 8 th month
47632	RO	kWh (high word), branch circuit 6, last 8 th month
47633	RO	kWh (low word), branch circuit 7, last 8 th month
47634	RO	kWh (high word), branch circuit 7, last 8 th month
47635	RO	kWh (low word), branch circuit 8, last 8 th month
47636	RO	kWh (high word), branch circuit 8, last 8 th month
47637	RO	kWh (low word), branch circuit 9, last 8 th month
L		· · · · · · · · · · · · · · · · · · ·

47638	RO	kWh (high word), branch circuit 9, last 8 th month
47639	RO	kWh (low word), branch circuit 10, last 8 th month
47640	RO	kWh (high word), branch circuit 10, last 8 th month
47641	RO	kWh (low word), branch circuit 11, last 8 th month
47642	RO	kWh (high word), branch circuit 11, last 8 th month
47643	RO	kWh (low word), branch circuit 12, last 8 th month
47644	RO	kWh (high word), branch circuit 12, last 8 th month
47645	RO	kWh (low word), branch circuit 13, last 8 th month
47646	RO	kWh (high word), branch circuit 13, last 8 th month
47647	RO	kWh (low word), branch circuit 14, last 8 th month
47648	RO	kWh (high word), branch circuit 14, last 8 th month
47649	RO	kWh (low word), branch circuit 15, last 8 th month
47650	RO	kWh (high word), branch circuit 15, last 8 th month
47651	RO	kWh (low word), branch circuit 16, last 8 th month
47652	RO	kWh (high word), branch circuit 16, last 8 th month
47653	RO	kWh (low word), branch circuit 17, last 8 th month
47654	RO	kWh (high word), branch circuit 17, last 8 th month
47655	RO	kWh (low word), branch circuit 18, last 8 th month
47656	RO	kWh (high word), branch circuit 18, last 8 th month
47657	RO	kWh (low word), branch circuit 19, last 8 th month
47658	RO	kWh (high word), branch circuit 19, last 8 th month
47659	RO	kWh (low word), branch circuit 20, last 8 th month
47660	RO	kWh (high word), branch circuit 20, last 8 th month
47661	RO	kWh (low word), branch circuit 21, last 8 th month
47662	RO	kWh (high word), branch circuit 21, last 8 th month
47663	RO	kWh (low word), branch circuit 22, last 8 th month
47664	RO	kWh (high word), branch circuit 22, last 8 th month
L		

47665	RO	kWh (low word), branch circuit 23, last 8 th month
47666	RO	kWh (high word), branch circuit 23, last 8 th month
47667	RO	kWh (low word), branch circuit 24, last 8 th month
47668	RO	kWh (high word), branch circuit 24, last 8 th month
47669	RO	kWh (low word), branch circuit 25, last 8 th month
47670	RO	kWh (high word), branch circuit 25, last 8 th month
47671	RO	kWh (low word), branch circuit 26, last 8 th month
47672	RO	kWh (high word), branch circuit 26, last 8 th month
47673	RO	kWh (low word), branch circuit 27, last 8 th month
47674	RO	kWh (high word), branch circuit 27, last 8 th month
47675	RO	kWh (low word), branch circuit 28, last 8 th month
47676	RO	kWh (high word), branch circuit 28, last 8 th month
47677	RO	kWh (low word), branch circuit 29, last 8 th month
47678	RO	kWh (high word), branch circuit 29, last 8 th month
47679	RO	kWh (low word), branch circuit 30, last 8 th month
47680	RO	kWh (high word), branch circuit 30, last 8 th month
47681	RO	kWh (low word), branch circuit 31, last 8 th month
47682	RO	kWh (high word), branch circuit 31, last 8 th month
47683	RO	kWh (low word), branch circuit 32, last 8 th month
47684	RO	kWh (high word), branch circuit 32, last 8 th month
47685	RO	kWh (low word), branch circuit 33, last 8 th month
47686	RO	kWh (high word), branch circuit 33, last 8 th month
47687	RO	kWh (low word), branch circuit 34, last 8 th month
47688	RO	kWh (high word), branch circuit 34, last 8 th month
47689	RO	kWh (low word), branch circuit 35, last 8 th month
47690	RO	kWh (high word), branch circuit 35, last 8 th month
47691	RO	kWh (low word), branch circuit 36, last 8 th month
L	L	

47692	RO	kWh (high word), branch circuit 36, last 8 th month	
47693	RO	kWh (low word), branch circuit 37, last 8 th month	
47694	RO	kWh (high word), branch circuit 37, last 8 th month	
47695	RO	kWh (low word), branch circuit 38, last 8 th month	
47696	RO	kWh (high word), branch circuit 38, last 8 th month	
47697	RO	kWh (low word), branch circuit 39, last 8 th month	
47698	RO	kWh (high word), branch circuit 39, last 8 th month	
47699	RO	kWh (low word), branch circuit 40, last 8 th month	
47700	RO	kWh (high word), branch circuit 40, last 8 th month	
47701	RO	kWh (low word), branch circuit 41, last 8 th month	
47702	RO	kWh (high word), branch circuit 41, last 8 th month	
47703	RO	kWh (low word), branch circuit 42, last 8 th month	
47704	RO	kWh (high word), branch circuit 42, last 8 th month	
47705	RO	Last 9 th month of the year	
47706	RO	Month	
47707	RO	kWh (low word), main circuit, last 9 th month	
47708	RO	kWh (high word), main circuit, last 9 th month	
47709	RO	kWh (low word), branch circuit 1, last 9 th month	
47710	RO	kWh (high word), branch circuit 1, last 9 th month	
47711	RO	kWh (low word), branch circuit 2, last 9 th month	
47712	RO	kWh (high word), branch circuit 2, last 9 th month	
47713	RO	kWh (low word), branch circuit 3, last 9 th month	
47714	RO	kWh (high word), branch circuit 3, last 9 th month	
47715	RO	kWh (low word), branch circuit 4, last 9 th month	
47716	RO	kWh (high word), branch circuit 4, last 9 th month	
47717	RO	kWh (low word), branch circuit 5, last 9 th month	
47718	RO	kWh (high word), branch circuit 5, last 9 th month	
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47719	RO	kWh (low word), branch circuit 6, last 9 th month
47720	RO	kWh (high word), branch circuit 6, last 9 th month
47721	RO	kWh (low word), branch circuit 7, last 9 th month
47722	RO	kWh (high word), branch circuit 7, last 9 th month
47723	RO	kWh (low word), branch circuit 8, last 9 th month
47724	RO	kWh (high word), branch circuit 8, last 9 th month
47725	RO	kWh (low word), branch circuit 9, last 9 th month
47726	RO	kWh (high word), branch circuit 9, last 9 th month
47727	RO	kWh (low word), branch circuit 10, last 9 th month
47728	RO	kWh (high word), branch circuit 10, last 9 th month
47729	RO	kWh (low word), branch circuit 11, last 9 th month
47730	RO	kWh (high word), branch circuit 11, last 9 th month
47731	RO	kWh (low word), branch circuit 12, last 9 th month
47732	RO	kWh (high word), branch circuit 12, last 9 th month
47733	RO	kWh (low word), branch circuit 13, last 9 th month
47734	RO	kWh (high word), branch circuit 13, last 9 th month
47735	RO	kWh (low word), branch circuit 14, last 9 th month
47736	RO	kWh (high word), branch circuit 14, last 9 th month
47737	RO	kWh (low word), branch circuit 15, last 9 th month
47738	RO	kWh (high word), branch circuit 15, last 9 th month
47739	RO	kWh (low word), branch circuit 16, last 9 th month
47740	RO	kWh (high word), branch circuit 16, last 9 th month
47741	RO	kWh (low word), branch circuit 17, last 9 th month
47742	RO	kWh (high word), branch circuit 17, last 9 th month
47743	RO	kWh (low word), branch circuit 18, last 9 th month
47744	RO	kWh (high word), branch circuit 18, last 9 th month
47745	RO	kWh (low word), branch circuit 19, last 9 th month
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47746	RO	kWh (high word), branch circuit 19, last 9 th month
47747	RO	kWh (low word), branch circuit 20, last 9 th month
47748	RO	kWh (high word), branch circuit 20, last 9 th month
47749	RO	kWh (low word), branch circuit 21, last 9 th month
47750	RO	kWh (high word), branch circuit 21, last 9 th month
47751	RO	kWh (low word), branch circuit 22, last 9 th month
47752	RO	kWh (high word), branch circuit 22, last 9 th month
47753	RO	kWh (low word), branch circuit 23, last 9 th month
47754	RO	kWh (high word), branch circuit 23, last 9 th month
47755	RO	kWh (low word), branch circuit 24, last 9 th month
47756	RO	kWh (high word), branch circuit 24, last 9 th month
47757	RO	kWh (low word), branch circuit 25, last 9 th month
47758	RO	kWh (high word), branch circuit 25, last 9 th month
47759	RO	kWh (low word), branch circuit 26, last 9 th month
47760	RO	kWh (high word), branch circuit 26, last 9 th month
47761	RO	kWh (low word), branch circuit 27, last 9 th month
47762	RO	kWh (high word), branch circuit 27, last 9 th month
47763	RO	kWh (low word), branch circuit 28, last 9 th month
47764	RO	kWh (high word), branch circuit 28, last 9 th month
47765	RO	kWh (low word), branch circuit 29, last 9 th month
47766	RO	kWh (high word), branch circuit 29, last 9 th month
47767	RO	kWh (low word), branch circuit 30, last 9 th month
47768	RO	kWh (high word), branch circuit 30, last 9 th month
47769	RO	kWh (low word), branch circuit 31, last 9 th month
47770	RO	kWh (high word), branch circuit 31, last 9 th month
47771	RO	kWh (low word), branch circuit 32, last 9 th month
47772	RO	kWh (high word), branch circuit 32, last 9 th month
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47773	RO	kWh (low word), branch circuit 33, last 9 th month	
47774	RO	kWh (high word), branch circuit 33, last 9 th month	
47775	RO	kWh (low word), branch circuit 34, last 9 th month	
47776	RO	kWh (high word), branch circuit 34, last 9 th month	
47777	RO	kWh (low word), branch circuit 35, last 9 th month	
47778	RO	kWh (high word), branch circuit 35, last 9 th month	
47779	RO	kWh (low word), branch circuit 36, last 9 th month	
47780	RO	kWh (high word), branch circuit 36, last 9 th month	
47781	RO	kWh (low word), branch circuit 37, last 9 th month	
47782	RO	kWh (high word), branch circuit 37, last 9 th month	
47783	RO	kWh (low word), branch circuit 38, last 9 th month	
47784	RO	kWh (high word), branch circuit 38, last 9 th month	
47785	RO	kWh (low word), branch circuit 39, last 9 th month	
47786	RO	kWh (high word), branch circuit 39, last 9 th month	
47787	RO	kWh (low word), branch circuit 40, last 9 th month	
47788	RO	kWh (high word), branch circuit 40, last 9 th month	
47789	RO	kWh (low word), branch circuit 41, last 9 th month	
47790	RO	kWh (high word), branch circuit 41, last 9 th month	
47791	RO	kWh (low word), branch circuit 42, last 9 th month	
47792	RO	kWh (high word), branch circuit 42, last 9 th month	
47793	RO	Last 10 th month of the year	
47794	RO	Month	
47795	RO	kWh (low word), main circuit, last 10 th month	
47796	RO	kWh (high word), main circuit, last 10 th month	
47797	RO	kWh (low word), branch circuit 1, last 10 th month	
47798	RO	kWh (high word), branch circuit 1, last 10 th month	
47799	RO	kWh (low word), branch circuit 2, last 10 th month	

47800	RO	kWh (high word), branch circuit 2, last 10 th month	
47801	RO	kWh (low word), branch circuit 3, last 10 th month	
47802	RO	kWh (high word), branch circuit 3, last 10 th month	
47803	RO	kWh (low word), branch circuit 4, last 10 th month	
47804	RO	kWh (high word), branch circuit 4, last 10 th month	
47805	RO	kWh (low word), branch circuit 5, last 10 th month	
47806	RO	kWh (high word), branch circuit 5, last 10 th month	
47807	RO	kWh (low word), branch circuit 6, last 10 th month	
47808	RO	kWh (high word), branch circuit 6, last 10 th month	
47809	RO	kWh (low word), branch circuit 7, last 10 th month	
47810	RO	kWh (high word), branch circuit 7, last 10 th month	
47811	RO	kWh (low word), branch circuit 8, last 10 th month	
47812	RO	kWh (high word), branch circuit 8, last 10 th month	
47813	RO	kWh (low word), branch circuit 9, last 10 th month	
47814	RO	kWh (high word), branch circuit 9, last 10 th month	
47815	RO	kWh (low word), branch circuit 10, last 10 th month	
47816	RO	kWh (high word), branch circuit 10, last 10 th month	
47817	RO	kWh (low word), branch circuit 11, last 10 th month	
47818	RO	kWh (high word), branch circuit 11, last 10 th month	
47819	RO	kWh (low word), branch circuit 12, last 10 th month	
47820	RO	kWh (high word), branch circuit 12, last 10 th month	
47821	RO	kWh (low word), branch circuit 13, last 10 th month	
47822	RO	kWh (high word), branch circuit 13, last 10 th month	
47823	RO	kWh (low word), branch circuit 14, last 10 th month	
47824	RO	kWh (high word), branch circuit 14, last 10 th month	
47825	RO	kWh (low word), branch circuit 15, last 10 th month	
47826	RO	kWh (high word), branch circuit 15, last 10 th month	
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47827	RO	kWh (low word), branch circuit 16, last 10 th month
47828	RO	kWh (high word), branch circuit 16, last 10 th month
47829	RO	kWh (low word), branch circuit 17, last 10 th month
47830	RO	kWh (high word), branch circuit 17, last 10 th month
47831	RO	kWh (low word), branch circuit 18, last 10 th month
47832	RO	kWh (high word), branch circuit 18, last 10 th month
47833	RO	kWh (low word), branch circuit 19, last 10 th month
47834	RO	kWh (high word), branch circuit 19, last 10 th month
47835	RO	kWh (low word), branch circuit 20, last 10 th month
47836	RO	kWh (high word), branch circuit 20, last 10 th month
47837	RO	kWh (low word), branch circuit 21, last 10 th month
47838	RO	kWh (high word), branch circuit 21, last 10 th month
47839	RO	kWh (low word), branch circuit 22, last 10 th month
47840	RO	kWh (high word), branch circuit 22, last 10 th month
47841	RO	kWh (low word), branch circuit 23, last 10 th month
47842	RO	kWh (high word), branch circuit 23, last 10 th month
47843	RO	kWh (low word), branch circuit 24, last 10 th month
47844	RO	kWh (high word), branch circuit 24, last 10 th month
47845	RO	kWh (low word), branch circuit 25, last 10 th month
47846	RO	kWh (high word), branch circuit 25, last 10 th month
47847	RO	kWh (low word), branch circuit 26, last 10 th month
47848	RO	kWh (high word), branch circuit 26, last 10 th month
47849	RO	kWh (low word), branch circuit 27, last 10 th month
47850	RO	kWh (high word), branch circuit 27, last 10 th month
47851	RO	kWh (low word), branch circuit 28, last 10 th month
47852	RO	kWh (high word), branch circuit 28, last 10 th month
47853	RO	kWh (low word), branch circuit 29, last 10 th month

47854	RO	kWh (high word), branch circuit 29, last 10 th month	
47855	RO	kWh (low word), branch circuit 30, last 10 th month	
47856	RO	kWh (high word), branch circuit 30, last 10 th month	
47857	RO	kWh (low word), branch circuit 31, last 10 th month	
47858	RO	kWh (high word), branch circuit 31, last 10 th month	
47859	RO	kWh (low word), branch circuit 32, last 10 th month	
47860	RO	kWh (high word), branch circuit 32, last 10 th month	
47861	RO	kWh (low word), branch circuit 33, last 10 th month	
47862	RO	kWh (high word), branch circuit 33, last 10 th month	
47863	RO	kWh (low word), branch circuit 34, last 10 th month	
47864	RO	kWh (high word), branch circuit 34, last 10 th month	
47865	RO	kWh (low word), branch circuit 35, last 10 th month	
47866	RO	kWh (high word), branch circuit 35, last 10 th month	
47867	RO	kWh (low word), branch circuit 36, last 10 th month	
47868	RO	kWh (high word), branch circuit 36, last 10 th month	
47869	RO	kWh (low word), branch circuit 37, last 10 th month	
47870	RO	kWh (high word), branch circuit 37, last 10 th month	
47871	RO	kWh (low word), branch circuit 38, last 10 th month	
47872	RO	kWh (high word), branch circuit 38, last 10 th month	
47873	RO	kWh (low word), branch circuit 39, last 10 th month	
47874	RO	kWh (high word), branch circuit 39, last 10 th month	
47875	RO	kWh (low word), branch circuit 40, last 10 th month	
47876	RO	kWh (high word), branch circuit 40, last 10 th month	
47877	RO	kWh (low word), branch circuit 41, last 10 th month	
47878	RO	kWh (high word), branch circuit 41, last 10 th month	
47879	RO	kWh (low word), branch circuit 42, last 10 th month	
47880	RO	kWh (high word), branch circuit 42, last 10 th month	
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47881	RO	Last 11 th month of the year	
47882	RO	Month	
47883	RO	kWh (low word), main circuit, last 11 th month	
47884	RO	kWh (high word), main circuit, last 11 th month	
47885	RO	kWh (low word), branch circuit 1, last 11 th month	
47886	RO	kWh (high word), branch circuit 1, last 11 th month	
47887	RO	kWh (low word), branch circuit 2, last 11 th month	
47888	RO	kWh (high word), branch circuit 2, last 11 th month	
47889	RO	kWh (low word), branch circuit 3, last 11 th month	
47890	RO	kWh (high word), branch circuit 3, last 11 th month	
47891	RO	kWh (low word), branch circuit 4, last 11 th month	
47892	RO	kWh (high word), branch circuit 4, last 11 th month	
47893	RO	kWh (low word), branch circuit 5, last 11 th month	
47894	RO	kWh (high word), branch circuit 5, last 11 th month	
47895	RO	kWh (low word), branch circuit 6, last 11 th month	
47896	RO	kWh (high word), branch circuit 6, last 11 th month	
47897	RO	kWh (low word), branch circuit 7, last 11 th month	
47898	RO	kWh (high word), branch circuit 7, last 11 th month	
47899	RO	kWh (low word), branch circuit 8, last 11 th month	
47900	RO	kWh (high word), branch circuit 8, last 11 th month	
47901	RO	kWh (low word), branch circuit 9, last 11 th month	
47902	RO	kWh (high word), branch circuit 9, last 11 th month	
47903	RO	kWh (low word), branch circuit 10, last 11 th month	
47904	RO	kWh (high word), branch circuit 10, last 11 th month	
47905	RO	kWh (low word), branch circuit 11, last 11 th month	
47906	RO	kWh (high word), branch circuit 11, last 11 th month	
47907	RO	kWh (low word), branch circuit 12, last 11 th month	

47908	RO	kWh (high word), branch circuit 12, last 11 th month	
47909	RO	kWh (low word), branch circuit 13, last 11 th month	
47910	RO	kWh (high word), branch circuit 13, last 11 th month	
47911	RO	kWh (low word), branch circuit 14, last 11 th month	
47912	RO	kWh (high word), branch circuit 14, last 11 th month	
47913	RO	kWh (low word), branch circuit 15, last 11 th month	
47914	RO	kWh (high word), branch circuit 15, last 11 th month	
47915	RO	kWh (low word), branch circuit 16, last 11 th month	
47916	RO	kWh (high word), branch circuit 16, last 11 th month	
47917	RO	kWh (low word), branch circuit 17, last 11 th month	
47918	RO	kWh (high word), branch circuit 17, last 11 th month	
47919	RO	kWh (low word), branch circuit 18, last 11 th month	
47920	RO	kWh (high word), branch circuit 18, last 11 th month	
47921	RO	kWh (low word), branch circuit 19, last 11 th month	
47922	RO	kWh (high word), branch circuit 19, last 11 th month	
47923	RO	kWh (low word), branch circuit 20, last 11 th month	
47924	RO	kWh (high word), branch circuit 20, last 11 th month	
47925	RO	kWh (low word), branch circuit 21, last 11 th month	
47926	RO	kWh (high word), branch circuit 21, last 11 th month	
47927	RO	kWh (low word), branch circuit 22, last 11 th month	
47928	RO	kWh (high word), branch circuit 22, last 11 th month	
47929	RO	kWh (low word), branch circuit 23, last 11 th month	
47930	RO	kWh (high word), branch circuit 23, last 11 th month	
47931	RO	kWh (low word), branch circuit 24, last 11 th month	
47932	RO	kWh (high word), branch circuit 24, last 11 th month	
47933	RO	kWh (low word), branch circuit 25, last 11 th month	
47934	RO	kWh (high word), branch circuit 25, last 11 th month	
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47935	RO	kWh (low word), branch circuit 26, last 11 th month
47936	RO	kWh (high word), branch circuit 26, last 11 th month
47937	RO	kWh (low word), branch circuit 27, last 11 th month
47938	RO	kWh (high word), branch circuit 27, last 11 th month
47939	RO	kWh (low word), branch circuit 28, last 11 th month
47940	RO	kWh (high word), branch circuit 28, last 11 th month
47941	RO	kWh (low word), branch circuit 29, last 11 th month
47942	RO	kWh (high word), branch circuit 29, last 11 th month
47943	RO	kWh (low word), branch circuit 30, last 11 th month
47944	RO	kWh (high word), branch circuit 30, last 11 th month
47945	RO	kWh (low word), branch circuit 31, last 11 th month
47946	RO	kWh (high word), branch circuit 31, last 11 th month
47947	RO	kWh (low word), branch circuit 32, last 11 th month
47948	RO	kWh (high word), branch circuit 32, last 11 th month
47949	RO	kWh (low word), branch circuit 33, last 11 th month
47950	RO	kWh (high word), branch circuit 33, last 11 th month
47951	RO	kWh (low word), branch circuit 34, last 11 th month
47952	RO	kWh (high word), branch circuit 34, last 11 th month
47953	RO	kWh (low word), branch circuit 35, last 11 th month
47954	RO	kWh (high word), branch circuit 35, last 11 th month
47955	RO	kWh (low word), branch circuit 36, last 11 th month
47956	RO	kWh (high word), branch circuit 36, last 11 th month
47957	RO	kWh (low word), branch circuit 37, last 11 th month
47958	RO	kWh (high word), branch circuit 37, last 11 th month
47959	RO	kWh (low word), branch circuit 38, last 11 th month
47960	RO	kWh (high word), branch circuit 38, last 11 th month
47961	RO	kWh (low word), branch circuit 39, last 11 th month

47962	RO	kWh (high word), branch circuit 39, last 11 th month	
47963	RO	kWh (low word), branch circuit 40, last 11 th month	
47964	RO	kWh (high word), branch circuit 40, last 11 th month	
47965	RO	kWh (low word), branch circuit 41, last 11 th month	
47966	RO	kWh (high word), branch circuit 41, last 11 th month	
47967	RO	kWh (low word), branch circuit 42, last 11 th month	
47968	RO	kWh (high word), branch circuit 42, last 11 th month	
47969	RO	Last 12 th month of the year	
47970	RO	Month	
47971	RO	kWh (low word), main circuit, last 12 th month	
47972	RO	kWh (high word), main circuit, last 12 th month	
47973	RO	kWh (low word), branch circuit 1, last 12 th month	
47974	RO	kWh (high word), branch circuit 1, last 12 th month	
47975	RO	kWh (low word), branch circuit 2, last 12 th month	
47976	RO	kWh (high word), branch circuit 2, last 12 th month	
47977	RO	kWh (low word), branch circuit 3, last 12 th month	
47978	RO	kWh (high word), branch circuit 3, last 12 th month	
47979	RO	kWh (low word), branch circuit 4, last 12 th month	
47980	RO	kWh (high word), branch circuit 4, last 12 th month	
47981	RO	kWh (low word), branch circuit 5, last 12 th month	
47982	RO	kWh (high word), branch circuit 5, last 12 th month	
47983	RO	kWh (low word), branch circuit 6, last 12 th month	
47984	RO	kWh (high word), branch circuit 6, last 12 th month	
47985	RO	kWh (low word), branch circuit 7, last 12 th month	
47986	RO	kWh (high word), branch circuit 7, last 12 th month	
47987	RO	kWh (low word), branch circuit 8, last 12 th month	
47988	RO	kWh (high word), branch circuit 8, last 12 th month	
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47989	RO	kWh (low word), branch circuit 9, last 12 th month
47990	RO	kWh (high word), branch circuit 9, last 12 th month
47991	RO	kWh (low word), branch circuit 10, last 12 th month
47992	RO	kWh (high word), branch circuit 10, last 12 th month
47993	RO	kWh (low word), branch circuit 11, last 12 th month
47994	RO	kWh (high word), branch circuit 11, last 12 th month
47995	RO	kWh (low word), branch circuit 12, last 12 th month
47996	RO	kWh (high word), branch circuit 12, last 12 th month
47997	RO	kWh (low word), branch circuit 13, last 12 th month
47998	RO	kWh (high word), branch circuit 13, last 12 th month
47999	RO	kWh (low word), branch circuit 14, last 12 th month
48000	RO	kWh (high word), branch circuit 14, last 12 th month
48001	RO	kWh (low word), branch circuit 15, last 12 th month
48002	RO	kWh (high word), branch circuit 15, last 12 th month
48003	RO	kWh (low word), branch circuit 16, last 12 th month
48004	RO	kWh (high word), branch circuit 16, last 12 th month
48005	RO	kWh (low word), branch circuit 17, last 12 th month
48006	RO	kWh (high word), branch circuit 17, last 12 th month
48007	RO	kWh (low word), branch circuit 18, last 12 th month
48008	RO	kWh (high word), branch circuit 18, last 12 th month
48009	RO	kWh (low word), branch circuit 19, last 12 th month
48010	RO	kWh (high word), branch circuit 19, last 12 th month
48011	RO	kWh (low word), branch circuit 20, last 12 th month
48012	RO	kWh (high word), branch circuit 20, last 12 th month
48013	RO	kWh (low word), branch circuit 21, last 12 th month
48014	RO	kWh (high word), branch circuit 21, last 12 th month
48015	RO	kWh (low word), branch circuit 22, last 12 th month
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48016	RO	kWh (high word), branch circuit 22, last 12 th month	
48017	RO	kWh (low word), branch circuit 23, last 12 th month	
48018	RO	kWh (high word), branch circuit 23, last 12 th month	
48019	RO	kWh (low word), branch circuit 24, last 12 th month	
48020	RO	kWh (high word), branch circuit 24, last 12 th month	
48021	RO	kWh (low word), branch circuit 25, last 12 th month	
48022	RO	kWh (high word), branch circuit 25, last 12 th month	
48023	RO	kWh (low word), branch circuit 26, last 12 th month	
48024	RO	kWh (high word), branch circuit 26, last 12 th month	
48025	RO	kWh (low word), branch circuit 27, last 12 th month	
48026	RO	kWh (high word), branch circuit 27, last 12 th month	
48027	RO	kWh (low word), branch circuit 28, last 12 th month	
48028	RO	kWh (high word), branch circuit 28, last 12 th month	
48029	RO	kWh (low word), branch circuit 29, last 12 th month	
48030	RO	kWh (high word), branch circuit 29, last 12 th month	
48031	RO	kWh (low word), branch circuit 30, last 12 th month	
48032	RO	kWh (high word), branch circuit 30, last 12 th month	
48033	RO	kWh (low word), branch circuit 31, last 12 th month	
48034	RO	kWh (high word), branch circuit 31, last 12 th month	
48035	RO	kWh (low word), branch circuit 32, last 12 th month	
48036	RO	kWh (high word), branch circuit 32, last 12 th month	
48037	RO	kWh (low word), branch circuit 33, last 12 th month	
48038	RO	kWh (high word), branch circuit 33, last 12 th month	
48039	RO	kWh (low word), branch circuit 34, last 12 th month	
48040	RO	kWh (high word), branch circuit 34, last 12 th month	
48041	RO	kWh (low word), branch circuit 35, last 12 th month	
48042	RO	kWh (high word), branch circuit 35, last 12 th month	
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48043	RO	kWh (low word), branch circuit 36, last 12 th month	
48044	RO	kWh (high word), branch circuit 36, last 12 th month	
48045	RO	kWh (low word), branch circuit 37, last 12 th month	
48046	RO	kWh (high word), branch circuit 37, last 12 th month	
48047	RO	kWh (low word), branch circuit 38, last 12 th month	
48048	RO	kWh (high word), branch circuit 38, last 12 th month	
48049	RO	kWh (low word), branch circuit 39, last 12 th month	
48050	RO	kWh (high word), branch circuit 39, last 12 th month	
48051	RO	kWh (low word), branch circuit 40, last 12 th month	
48052	RO	kWh (high word), branch circuit 40, last 12 th month	
48053	RO	kWh (low word), branch circuit 41, last 12 th month	
48054	RO	kWh (high word), branch circuit 41, last 12 th month	
48055	RO	kWh (low word), branch circuit 42, last 12 th month	
48056	RO	kWh (high word), branch circuit 42, last 12 th month	

5.9 Register Instruction

5.9.1 Measured Data Register Instruction

Name	Туре	Coefficient	Unit	Remarks
Voltage of Main circuit	U16	0.01	V	
Current of Main circuit	U16	0.001	A	Secondary Value
Current Unbalance rate	U16	0.1	%	Percentage
Active power of Main circuit	U16	0.1	W	
Total Active power of Main circuit	U32	0.1	W	The first register is low word, the second register is high word.
Reactive power of Main circuit	U16	0.1	Var	
Total Reactive power of	U32	0.1	Var	The first register is low word, the second register is

Main circuit				high word.
Power Factor	U16	0.001		
Frequency	U16	0.01	Hz	
Active Energy	U32	0.1	kWh	The first register is low word, the second register is high word.
Reactive Energy	U32	0.1	kvarh	The first register is low word, the second register is high word.
Harmonic THD of Main circuit	U16	0.1	%	Percentage
Leakage Current	U16	1	mA	
Temperature	U16	0.1	$^{\circ}$	
Neutral-earth Voltage	U16	0.01	V	
Current of Branch circuit	U16	0.01	А	Primary value
Power factor of Branch circuit	U16	0.001	1	
Active Power of Branch circuit	U16	1	W	Branch circuit CT ratio: 50/100/200
Active Power of Branch circuit	U16	10	W	Branch circuit CT ratio: 400/600
Reactive power of Branch circuit	U16	1	Var	Branch circuit CT ratio: 50/100/200
Reactive power of Branch circuit	U16	10	Var	Branch circuit CT ratio: 400/600
Active Energy of Branch circuit	U32	0.1	kWh	The first register is low word, the second register is high word.
Reactive energy of Branch circuit	U32	0.1	kvarh	The first register is low word, the second register is high word.
Harmonic THD of Branch	U16	0.1	%	Percentage

circuit		

Attention:

U16, 16 bits integer, no symbol,

S16, 16 bits integer, with symbol;

U32, 32 bits integer, no symbol;

S32, 32 bits integer, with symbol.

5.9.2 Alarm Registers

Name	Туре	Description		
	U16	0: no alarm, 1: alarm		
		bit0: current low-low-limit alarm;		
		bit1: current low-limit alarm;		
		bit2: current high-limit alarm;		
		bit3: current high-high-limit alarm;		
Alarm of Main circuit		bit4: neutral current high-limit alarm;		
Alaim of Main circuit		bit5: current unbalance alarm;		
		bit8: low voltage alarm;		
		bit9: high voltage alarm.		
		bit10: leakage current high-limit alarm		
		bit11: temperature high-limit alarm		
		bit12: neutral-earth voltage high-limit alarm		
		bit0: current low-low-limit alarm;		
		bit1: current low-limit alarm;		
Alarm of Branch circuit	U16	bit2: current high-limit alarm;		
		bit3: current high-high limit alarm;		
		bit14: branch circuit switch OFF alarm		
DI and relays of the main module	U16	0: OFF, 1: ON		

	Bit0: DI 1
	bit1: DI 2
	Bit2: DI 3
	Bit3: DI 4
	bit8: Relay 1
	bit9: Relay 2

Attention:

U16, 16 bits integer, no symbol,

S16, 16 bits integer, with symbol;

U32, 32 bits integer, no symbol;

S32, 32 bits integer, with symbol.

5.9.3 Device Configuration Registers

Name	Туре	coefficient	Unit	Remarks
Current alarm value of Main circuit	U16	0.01	А	Range: 0~65000, 0: Close.
Current unbalance rate	U16	0.1	%	Range: 0~1000, 0: Close.
Voltage alarm value of Main circuit	U16	0.01	V	Range: 0~30000, 0: Close
Current alarm value of Branch circuit	U16	0.01	А	Range: 0~25000, 0: Close
Leakage current alarm value of Main circuit	U16	1	mA	Range:0~65000, 0: Close
Temperature alarm value	U16	0.1	$^{\circ}$	Range:0~1200, 0: Close
Neutral-earth voltage alarm value	U16	0.01	V	Range:0~30000, 0: Close
Frequency low-limit alarm value	U16	0.1	Hz	Range: 450-500; Defaulted 450
Frequency high- limitalarm value	U16	0.1	Hz	Range: 500-600; Defaulted 600

Attention:

U16, 16 bits integer, no symbol,

S16, 16 bits integer, with symbol;

U32, 32 bits integer, no symbol;

S32, 32 bits integer, with symbol.