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Communication protocol between master			
controller and display board			

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主控器与显示板通讯协议

Communication protocol between master controller and display board

1 简介 Introduction

储能逆变器控制器由主控制器,从控制器,显示板控制器组成。主控制器主要负责并网算法电压外环,Bus 稳压控制环,MPPT,相关电网接口算法,功率和电量统计,及系统保护功能;从控制器主要负责直流 DCDC 转换,直流升压,主从一致性检测等,显示板主要负责系统工作信息的显示,因此有必要定义主控器与显示板的通讯协议。

Energy storage inverter controller consists of master controller, slave controller and display board controller. The main controller is mainly responsible for grid connection algorithm voltage outer loop, Bus voltage control loop, MPPT, related grid interface algorithm, power and quantity statistics, and system protection function. The slave controller is mainly responsible for DC-DC conversion, DC boost, master/slave consistency detection and so on. The display board controller is mainly responsible for displaying system-working information. Therefore, it is necessary to define the communication protocol between the master controller and the display board.

2 通讯接口定义 Communication interface

主控制器与显示板采用 UART 通讯,通讯设置为:波特率 115200bps,数据位 8 位,停止位 1 位,无奇偶校验,无流控。通讯方式采用半双工通讯方式,在同一时刻主机和从机只能有一个发送数据,另一个接收数据。主控制器与显示板通信由显示板发起,主控制器响应(不主动发起通信)。通信帧为 MODBUS 协议帧。

The main controller and the display board adopt UART communication and setting as follows: the baud rate is 115200bps, the data bit is 8 bits and the stop bit is 1 bit. No parity check and flow control. The communication mode adopts half-duplex communication mode. Only one of the host and slave can send data, and the other can receive data at the same time. Communication between the master controller and the display board is initiated by the display board, and the master controller responds (No communication is initiated). The communication frame is MODBUS protocol frame.

3 通讯帧定义 Communication frames

帧结构

从机地址域	0-247(十进制)(0 为广播地址)
功能域	0x03: 读多个参数
	0x06:写单个参数
	0x10:写多个参数
	0x17: 主从机同步数据
	0x41: 固件升级
数据域	数据域包括地址域和数据负荷域
CRC 域	16bit CRC 校验值

The frame structure

0-247(The decimal system)(0
indicates the broadcast address)
0x03: Read multiple registers
0x06: Write single register
0x10: Write multiple registers
0x17: Synchronize data between
the primary and secondary
servers
0x41: Updating firmware
The data domain includes the
address domain and the data
load domain
16bit CRC Calibration value

倍率:因单片机不具备完整的浮点运算单元,因此会采用整数来取代浮点数进行运算及传输,为了表示表示小于1的值,会

Ratio: Because the single chip microcomputer does not have a complete floating point operation unit, it will use integer to replace floating point number for operation and transmission. To represent values less than one,

某寄存器定义如下

地址	SIZE(Word)	寄存器名	数据类型	倍率	单位	属性	寄存器描述
001DH	1	PV1Volt	UInt16	0.1	V	R	PV1 电压

A register is defined as follows

Addr	SIZE(Word)	Register	Data type	Rat	Unit	attribu	Register describe
ess		names		io		te	
001DH	1	PV1Volt	UInt16	0.1	V	R	PV1 voltage

Pv1 电压为 300.5 时,寄存器 PV1Volt 的值为 3005,

When the Pv1 voltage is 300.5, the value of register PV1Volt is 3005.

3.1 通讯帧命令及帧描述 Communication Frame Commands and frame

Description

CRC 校验范围为帧地址~CRC 域(不包括 CRC 域),帧头不需要计算 CRC 校验。

CRC check ranges from the frame address to the CRC domain (excluding the CRC domain). CRC check is not required for the frame header.

3.1.1 0x03 读多个寄存器 0x03 Read multiple registers

该功能码(命令)是用来读取一个连续的块在寄存器的内容。

The function code (command) is used to read the contents of a contiguous block in a register.

请求协议数据单元指定起始寄存器地址和寄存器的数量。

The request protocol data unit specifies the starting register address and the number of registers.

在响应的寄存器数据中,每寄存器数据包含两个字节(二进制数右对齐在每个字节)。每个寄存器,第一个字节为高位和第二个字节为低位。

In the register data of the response, each register data contains two bytes (the binary number is right justified at each byte). For each register, the first byte is high and the second byte is low.

例如请求读寄存器 0x0001-0x0002

请求	(Hex)	应答	(Hex)
从机地址	OA	从机地址	OA
命令	03	命令	03
寄存器起始地址高位	00	字节个数	04
寄存器起始地址低位	01	寄存器值高位(01)	0F
寄存器个数高位	00	寄存器值低位(01)	AO
寄存器个数低位	02	寄存器值高位(02)	01
CRC 低位		寄存器值低位(02)	C2
CRC 高位		CRC 低位	
		CRC 高位	

For example, request to read register 0x0001-0x0002

request	(Hex)	response	(Hex)
The slave	OA	The slave	OA
controller address		controller address	
Command	03	Command	03
High start register address	00	The number of bytes	04
Low start register	01	Register value high	0F
address		(01)	
High register	00	Register value low	AO
number		(01)	
Low register number	02	Register value high (02)	01
CRC low		Register value low	C2
		(02)	
CRC high		CRC low	
		CRC high	

3.1.2 0x06 写单个寄存器 0x06 Write single register

该功能码(命令)是用于在从设备写一个保持寄存器。请求指定要写入的寄存器的地址。

The function code (command) is used to write a hold register on the slave device. The request specifies the address of the register to write to.

正常的响应是请求的回复,后返回寄存器的内容已写的数值。

The normal response is a reply to the request, after which the contents of the register are returned with the written value.

例如要求写入寄存器 0x0008 地址写入 0xAAAA 数值

请求	(Hex)	应答	(Hex)
从机地址	OA	从机地址	OA
命令	06	命令	06
寄存器起始地址高位	00	寄存器起始地址高位	00
寄存器起始地址低位	08	寄存器起始地址低位	08
寄存器值高位	AA	寄存器值高位	AA
寄存器值低位	AA	寄存器值低位	AA
CRC 低位		CRC 低位	
CRC 高位		CRC 高位	

For example, the register 0x0008 is required to write the address to 0xAAAA

request	(Hex)	response	(Hex)
The slave	OA	The slave	OA
controller address		controller address	
Command	06	Command	06
High start register	00	High start register	00
address		address	
Low start register	08	Low start register	08
address		address	
Register value high	AA	Register value high	AA
Register value low	AA	Register value low	AA
CRC 1ow		CRC low	
CRC high		CRC high	

3.1.3 0x10 写多个寄存器 0x10 write multiple register

该功能码(命令)是用于写入一段(串)连续地址的数值到寄存器。

This function code (command) is used to write a number of consecutive addresses to a register. 要求写入的数值是在数据字段中指定的要求。数据为两字节数寄存器。

The number required to be written is the one specified in the data field. The data is a two-byte register.

正常响应返回功能代码、起始地址和寄存器写数量。

The normal response returns the function code, the starting address, and the number of register writes.

例如写入寄存器 0x0001 地址的数为据 0x1194,写入寄存器 0x0002 地址的数为据 0x01CC。

请求	(Hex)	应答	(Hex)
从机地址	OA	从机地址	OA
命令	10	命令	10
寄存器起始地址高位	00	寄存器起始地址高位	00
寄存器起始地址低位	01	寄存器起始地址低位	01
寄存器个数高位	00	寄存器个数高位	00
寄存器个数低位	02	寄存器个数低位	02
字节个数	04	CRC 低位	
寄存器值高位(01)	11	CRC 高位	
寄存器值低位(01)	94		
寄存器值高位(02)	01		
寄存器值低位(02)	CC		
CRC 低位			
CRC 高位			

For example, the number of addresses written to register 0x0001 is data 0x1194, and the number of addresses written to register 0x0002 is data 0x01CC.

request	(Hex)	response	(Hex)
The slave	OA	The slave	OA
controller address		controller address	
Command	10	Command	10
High start register	00	High start register	00
address		address	
Low start register	01	Low start register	01
address		address	
High register	00	High register	00
number		number	
Low register number	02	Low register number	02
The number of bytes	04	CRC low	
Register value high	11	CRC high	
(01)			
Register value low	94		
(01)			
Register value high	01		
(02)			
Register value low	CC		
(02)			
CRC low			
CRC high			

3.1.4 0x17 读/写多个寄存器(主从同步数据)

0x17 Read/write multiple registers (master/slave data synchronization)

该功能码(命令)是用于单次传送中执行一个读操作和一次写操作,多个数据的读写。例如:

(Hex)	应答	(Hex)
11	从机地址	11
17	命令	17
00	字节个数	OC OC
04	寄存器值高位(04)	00
00	寄存器值低位(04)	FE
06	寄存器值高位(05)	OA
00	寄存器值低位(05)	CD
0F	寄存器值高位(06)	00
00	寄存器值低位(06)	01
03	寄存器值高位(07)	00
06	寄存器值低位(07)	03
00	寄存器值高位(08)	00
FF	寄存器值低位(08)	OD
00	寄存器值高位(09)	00
FF	寄存器值低位(09)	FF
00	CRC 低位	
FF	CRC 高位	
	11 17 00 04 00 06 00 0F 00 03 06 00 FF 00 FF	11 从机地址 17 命令 00 字节个数 04 寄存器值高位(04) 00 寄存器值低位(04) 06 寄存器值低位(05) 00 寄存器值低位(06) 00 寄存器值低位(06) 03 寄存器值低位(07) 06 寄存器值低位(07) 00 寄存器值低位(08) FF 寄存器值低位(08) 00 寄存器值低位(09) FF 寄存器值低位(09) 00 CRC 低位

This function code (command) is used to perform a read operation and a write operation in a single transmission, multiple data read and write.

For example:

request	(Hex)	response	(Hex)
The slave controller	11	The slave	11
address		controller address	
Command	17	Command	17
High start register address	00	The number of bytes	OC
Low start register address	04	Register value high (04)	00
Read the high number of registers	00	Register value low (04)	FE
Read the low number of registers	06	Register value high (05)	OA
Write register start address high	00	Register value low (05)	CD
Write register start address low	OF	Register value high (06)	00
Write the high number of registers	00	Register value low (06)	01
Write the low number of registers	03	Register value high (07)	00
The number of bytes	06	Register value low (07)	03
Write the high value of the register (OF)	00	Register value high (08)	00
Write the low value of the register (OF)	FF	Register value low (08)	OD
Write the high value of the register (10)	00	Register value high (09)	00
Write the low value of the register (10)	FF	Register value low (09)	FF
Write the high value of the register (11)	00	CRC low	
Write the low value of the register (11)	FF	CRC high	
CRC low			
CRC high			

3.1.5 错误响应帧定义 Error response frame

从机(服务端)一旦收到请求,根据处理结果的两种类型的响应:、

Once the slave machine (server) receives the request, it responds in two types according to the processing result:

•响应积极:

响应函数的代码响应请求功能代码。

• Positive response:

The code of the response function responds to the request function code.

•异常响应:

在一个异常响应,该服务器设置功能码的最高位置1。

将功能码值 + 0x80 返回异常代码。

•Abnormal response:

In response to an exception, the server sets the function code to the highest position of 1. Returns the function code value + 0x80 as an exception code.

异常代码:

错误码 (Hex)	描述
01	非法的功能码
02	非法的请求地址
03	非法的请求数据值
04	服务器故障
06	服务器忙
10	密码错误
11	校验错误
12	参数无效
13	系统锁定

Abnormal Code:

Abnormal Code (Hex)	Discription				
01	The function code				
01	is invalid				
02	Invalid request				
02	address				
03	Invalid request				
03	data value				
04	Server failure				
06	Server in busy				
10	Error password				
11	Check the error				
12	Parameter is				
12	invalid				
13	The system lock				

例如: 主机读取数据, 从机异常响应。

请求	(Hex)	应答	(Hex)
从机地址	OA	从机地址	OA
命令	03	命令	83
寄存器起始地址高位	00	错误代码	02
寄存器起始地址低位	01	CRC 低位	
寄存器个数高位	00	CRC 高位	
寄存器个数低位	02		
CRC 低位			
CRC 高位			

For example: The master reads data and the slave responds abnormally.

request	(Hex)	response	(Hex)
The slave	OA	The slave	OA
controller address		controller address	
Command	03	Command	83
High start register address	00	The error code	02
Low start register address	01	CRC 1ow	
High register number	00	CRC high	
Low register number	02		
CRC 1ow			
CRC high			

4 逆变器数据寄存器定义 Inverter data register definition

4.1Information 寄存器定义 Information register definition

地址	SIZE (Word)	寄存器名	数据类型	倍率	单位	属性	寄存器描述	备注
8F00H	1	Туре	UInt16	0		R	DeviceType	0x0055:单相高压交流耦合储能一体机 AS2 系列 (AS2 3-6K S) 0x0056:单相高压交流耦合储能一体机 AS2 系列 (AS2 5-10K S) 0x005A:单相混合储能逆变器 H2 系列 (H2 3-6k S2) 0x005B:单相混合储能逆变器 H2 系列 (三路 MPPT) (H2 5-10k S3) 0x005C:单相高压双路混合储能一体机 HS2 系列 (HS2 3-6K S2) 0x005D:单相高压三路混合储能一体机 HS2 系列 (HS2 5-10K S3)
8F01H	1	SubType	UInt16			R	power	功率段
8F02H	1	CommProVersion	UInt16	-3		R	Comms Protocol Version	
8F03H	10	SN	String(20)			R	SerialNumber	无效值: 0x00
8FODH	10	PC	String(20)			R	ProductCode	无效值: 0x00
8F17H	1	DV	UInt16	-3		R	Display Software Version	无效值: 0xFFFF
8F18H	1	MCV	UInt16	-3		R	Master Ctrl Software Version	无效值: 0xFFFF
8F19H	1	SCV	UInt16	-3		R	Slave Ctrl Software Version	无效值: 0xFFFF
8F1AH	1	DispHWVersion	UInt16	-3		R	DispBoardHardware Version	无效值: 0xFFFF
8F1BH	1	CtrlHWVersion	UInt16	-3		R	CtrlBoardHardware Version	无效值: 0xFFFF
8F1CH	1	PowerHWVersion	UInt16	-3		R	PowerBoardHardware Vesion	无效值: 0xFFFF

Address	SIZE(Word	Registe	Data types	Ratio	Unit	attribute	Register	
) 	r name					description	notes
8F00H	1	Туре	UInt16	0		R	DeviceType	0x0055: AS2 series
								Single-phase high
								voltage AC coupled
								energy storage

		1	1	1		I		
								machine (AS2 3-6K
								S)
								0x0056: AS2 series
								Single-phase high
								voltage AC coupled
								energy storage
								machine (AS2 5-10K
								S)
								0x005A: H2 series
								Single-phase
								hybrid energy
								storage inverter
								(H2 3-6k S2)
								0x005B: H2 series
								Single-phase
								hybrid energy
								storage inverter
								(Three channel
								MPPT) (H2 5-10k S3)
								0x005C: HS2 series
								Single-phase high
								voltage dual
								channel hybrid
								energy storage
								integrated
								machine (HS2 3-6K
								S2)
								0x005D:HS2 series
								Single-phase high
								voltage three
								channel hybrid
								storage
								integrated
								machine (HS2 5-10K
								S3)
8F01H	1	SubType	UInt16			R	power	The power section
8F02H	1	CommPro	UInt16	-3		R	Comms Protocol	
		Version			<u> </u>		Version	
8F03H	10	SN	String(20)			R	SerialNumber	Invalid values:
								0x00
8F0DH	10	PC	String(20)			R	ProductCode	Invalid values:
								0x00
8F17H	1	DV	UInt16	-3		R	Display Software	Invalid values:
							Version	0xFFFF
8F18H	1	MCV	UInt16	-3		R	Master Ctrl	Invalid values:
							Software Version	0xFFFF
		1	<u> </u>	L	<u> </u>	l		

8F19H	1	SCV	UInt16	-3	R	Slave Ctrl Software	Invalid values:
						Version	0xFFFF
8F1AH	1	DispHW	UInt16	-3	R	DispBoardHardware	Invalid values:
		Version				Version	0xFFFF
8F1BH	1	CtrlHW	UInt16	-3	R	CtrlBoardHardware	Invalid values:
		Version				Version	0xFFFF
8F1CH	1	PowerHW	UInt16	-3	R	PowerBoardHardware	Invalid values:
		Version				Vesion	0xFFFF

4.2Peripheral_Information 寄存器定义(选读)Peripheral_Information register definition(read section)

地址	SIZE(Word)	寄存器名	数据类型	倍率	单位	属性	寄存器描述	备注
8E00H	1	BMS1_type	UInt16	•		R	BMS1 类型	0: 不使用电池
		,,,						2: 铅酸
								20:dyness
								(DYNESS-H) 大秦
								21:pylon (SC0500)
								派能
								22 B2_can
8E01H	8	BMS1_SN	String(16)			R	BMS 1 SN	
8E09H	1	BMS1_software_Version	UInt16	-3		R	BMS 软件版本	
							1	
8EOAH	1	BMS1_hardware_Version	UInt16	-3		R	BMS 硬件版本	
							1	
8E0BH	1	BAT1_type	UInt16			R	电池1类型	1:50AH;2:80AH;3:100AH
8EOCH	8	BAT1_SN	String(16)			R	电池组 1SN	
8E14H	1	BMS2_type	UInt16			R	BMS2 类型	
8E15H	8	BMS2_SN	String(16)			R	BMS 2 SN	
8E1DH	1	BMS2_software_Version	UInt16	-3		R	BMS 软件版本 2	
8E1EH	1	BMS2_hardware_Version	UInt16	-3		R	BMS 硬件版本 2	
8E1FH	1	BAT2_type	UInt16			R	电池2类型	1:50AH;2:80AH;3:100AH
8E20H	8	BAT2_SN	String(16)			R	电池组 2SN	
8E28H	1	BMS3_type	UInt16			R	BMS3 类型	
8E29H	8	BMS3_SN	String(16)			R	BMS 3 SN	
8E31H	1	BMS3_software_Version	UInt16	-3		R	BMS 软件版本 3	
8E32H	1	BMS3_hardware_Version	UInt16	-3		R	BMS 硬件版本 3	
8E33H	1	BAT3_type	UInt16			R	电池3类型	1:50AH;2:80AH;3:100AH
8E34H	8	BAT3_SN	String(16)			R	电池组 3SN	

8E3CH	1	BMS4_type	UInt16		R	BMS4 类型	
8E3DH	8	BMS4_SN	String(16)		R	BMS 4 SN	
8E45H	1	BMS4_software_Version	UInt16	-3	R	BMS 软件版本 4	
8E46H	1	BMS4_hardware_Version	UInt16	-3	R	BMS 硬件版本 4	
8E47H	1	BAT4_type	UInt16		R	电池 4 类型	1:50AH;2:80AH;3:100AH
8E48H	8	BAT4_SN	String(16)		R	电池组 4SN	
8E50H	1	BMS5_type	UInt16		R	BMS5 类型	
8E51H	8	BMS5_SN	String(16)		R	BMS 5 SN	
8E59H	1	BMS5_software_Version	UInt16	-3	R	BMS 软件版本 5	
8E5AH	1	BMS5_hardware_Version	UInt16	-3	R	BMS 硬件版本 5	
8E5BH	1	BAT5_type	UInt16		R	电池5类型	1:50AH;2:80AH;3:100AH
8E5CH	8	BAT5_SN	String(16)		R	电池组 5SN	

Address	SIZE	Register name	Data types	Ratio	Unit	Attribute	Register	Notes
	(Word)						description	notes
8E00H	1	BMS1_type	UInt16			R	BMS1 type	0: Non-used Battery
								2: lead-acid
								20:dyness
								(DYNESS-H) Da Qing
								21:pylon (SC0500)
								Paineng
								22 B2_can
8E01H	8	BMS1_SN	String(16)			R	BMS 1 SN	
8E09H	1	BMS1_software_Version	UInt16	-3		R	BMSsoftware	
							version1	
8EOAH	1	BMS1_hardware_Version	UInt16	-3		R	BMShardware	
							version1	
8E0BH	1	BAT1_type	UInt16			R	Battery1	1:50AH;2:80AH;3:100AH
							type	
8EOCH	8	BAT1_SN	String(16)			R	Battery	
							pack1SN	
8E14H	1	BMS2_type	UInt16			R	BMS2 type	
8E15H	8	BMS2_SN	String(16)			R	BMS 2 SN	
8E1DH	1	BMS2_software_Version	UInt16	-3		R	BMSsoftware	
							version2	
8E1EH	1	BMS2_hardware_Version	UInt16	-3		R	BMShardware	
							version2	
8E1FH	1	BAT2_type	UInt16			R	Battery2	1:50AH;2:80AH;3:100AH
							type	
8E20H	8	BAT2_SN	String(16)			R	Battery	
							pack2SN	
8E28H	1	BMS3_type	UInt16			R	BMS3 type	
8E29H	8	BMS3_SN	String(16)			R	BMS 3 SN	
8E31H	1	BMS3_software_Version	UInt16	-3		R	BMSsoftware	
							version3	
8E32H	1	BMS3_hardware_Version	UInt16	-3		R	BMShardware	

						version3	
8E33H	1	BAT3_type	UInt16		R	Battery3	1:50AH;2:80AH;3:100AH
						type	
8E34H	8	BAT3_SN	String(16)		R	Battery	
						pack3SN	
8E3CH	1	BMS4_type	UInt16		R	BMS4 type	
8E3DH	8	BMS4_SN	String(16)		R	BMS 4 SN	
8E45H	1	BMS4_software_Version	UInt16	-3	R	BMSsoftware	
						version4	
8E46H	1	BMS4_hardware_Version	UInt16	-3	R	BMShardware	
						version4	
8E47H	1	BAT4_type	UInt16		R	Battery4	1:50AH;2:80AH;3:100AH
						type	
8E48H	8	BAT4_SN	String(16)		R	Battery pack	
						4SN	
8E50H	1	BMS5_type	UInt16		R	BMS5 type	
8E51H	8	BMS5_SN	String(16)		R	BMS 5 SN	
8E59H	1	BMS5_software_Version	UInt16	-3	R	BMSsoftware	
						version5	
8E5AH	1	BMS5_hardware_Version	UInt16	-3	R	BMShardware	
						version5	
8E5BH	1	BAT5_type	UInt16		R	Battery 5	1:50AH;2:80AH;3:100AH
						type	
8E5CH	8	BAT5_SN	String(16)		R	Battery pack	
						5SN	

4.3Realtime Data 寄存器定义 Realtime Data register definition

地址	SIZE(Word)	寄存器名	数据 类型	倍率	单 位	属性	寄存器描述	备注
4000Н	4	Time	НЕХ	0		R	逆变器当前时间	格式 yyyyMMddHHmmsszz yyyy:年份 MM: 月份 dd:日期 HH: 时(24小时制) mm:分 ss:秒 zz:保留位 2015-1-2 10:11:12 对应的数 据为 07DF 01 02 0A 0B 0C 00

4004H	1	MPVMode	Uint 16			R	逆变器工作模式	0 : 初始化 1 : 等待 2 : 运行 3 : 离网模式,储能用 4 : 电网带载模式,储能 用 5 : 故障 6 : 升级 7 : 调试 8 : 自检 9 : 复位
4005H	2	HFaultMSG	Uint 32			R	显示板/从机错误 消息	
4007H	2	MFaultMSG	Uint 32			R	主控制器错误消息	
4009H	2	MFaultMSG2	Uint 32			R	主控制器错误消息 2	
400BH	2	BMSFaultMSG	Uint 32			R	BMS 错误消息	
400DH	2	Reserve					保留	
400FH	1	Error_Count	Uint 16	0		R	逆变器错误警告信 息条数	
4010H	1	SinkTempC	Int1 6	- 1	$^{\circ}$	R	扇热器温度	
4011H	1	AmbTempC	Int1 6	- 1	°C	R	环境温度	
4012H	1	GFCI	Int1 6	0	mA	R	对地漏电流	
4013H	1	ISO1	UInt 16	0	k Ω	R	PV1+_ISO	
4014H	1	ISO2	UInt 16	0	k Ω	R	PV2+_IS0	
4015H	1	ISO3	UInt 16	0	k Ω	R	PV3+_ISO	Oxffff
4016H	1	ISO4	UInt 16	0	k Ω	R	PV_ISO	
4017H	1	DRM_HardwareStatus	Uint1	0		R	DRM 硬件状态位	每位为1表示相应的 DRM 端口被触发: Bit0 为 1 表示 DRM0 端口被触发 Bit1 为 1 表示 DRM1 端口被触发 Bit1 为 1 表示 DRM1 端口被触发 DRM1 已触发

4018 H	1	DRM_SoftwareStat	Uint1 6	0		R	DRM 软件状态位	每位为1表示相应的 DRM 被触发: Bit0 为1表示 DRM0 被触发Bit1 为1表示 DRM1 被触发…此 寄存器 为DRMSoftwareControl 寄存器的设置结果,但是受DRM_HardwareStatus寄存器值不为0,此寄存器的值一直为0,且DRMSoftwareControl寄存器的设置无效;
4019H	1	ConnTime	Uint 16	0	S	R	 并网倒计时	
401AH	1	ErrorDataSN	Uint 16	0		R	故障记录区流水 号	故障记录区故障的流水号,每新增一条故障,则流水号加1;如果流水号计数累计到最大值60000,再有新增一条故障时,流水号变为1;默认值:0
401BH	1	SettingDataSN	Uint 16	0		R	设置参数区流水号	设置区数据有变化+1
401CH	6	Running_data	Uint 16	0		R		透传信息(用于控制板的扩展信息添加)
4031H	1	RGridVolt	Uint 16	- 1	V	R	R相电网电压	
4032H	1	RGridCurr	Int1 6	- 2	A	R	R相电网电流	
4033H	1	RGridFreq	Uint 16	- 2	Hz	R	R相电网频率	
4034H	1	RGridDCI	Int1 6	0	mA	R	R相电网直流分量	三相电网
4035H	1	RGridPowerWatt	Int1 6	0	W	R	R 相电网有功功率	
4036H	1	RGridPowerVA	Uint 16	0	W	R	R 相电网视在功率	
4037H	1	RGridPowerPF	Int1 6	- 3		R	R相电网功率因数	
4046H	1	RInvVolt	Uint 16	- 1	V	R	R 相逆变电压	
4047H	1	RInvCurr	Int1 6	- 2	A	R	R 相逆变电流	逆变
4048H	1	RInvFreq	Uint	_	Hz	R	R 相逆变频率	

			16	2				
4049H	1	RInvPowerWatt	Int1 6	0	W	R	R 相逆变有功功率	
404AH	1	RInvPowerVA	Uint 16	0	VA	R	R 相逆变视在功率	
4055H	1	ROutVolt	Uint 16	- 1	V	R	R 相输出电压	
4056Н	1	ROutCurr	Uint 16	2	A	R	R相输出电流	
4057H	1	ROutFreq	Uint 16	2	Hz	R	R相输出频率	输出
4058H	1	ROutDVI	Int1 6	0	mV	R	R 相输出电压直流 分量	11111 1.1.1
4059Н	1	ROutPowerWatt	Uint 16	0	W	R	R 相输出有功功率	
405AH	1	ROutPowerVA	Uint 16	0	VA	R	R 相输出视在功率	
4067Н	1	BusVoltMaster	Uint 16	- 1	V	R	主机 BUS 电压	Bus
4069Н	1	BatVolt	Uint 16	- 1	V	R	电池电压	
406AH	1	BatCurr	Int1 6	2	A	R	电池电流	
406DH	1	BatPower	Int1 6	0	W	R	电池功率	电池实时
406EH	1	BatTempC	Int1 6	- 1	\mathbb{C}	R	电池温度	
406FH	1	BatEnergyPercent	Uint 16	2	%	R	电池电量	
4070H	1	Reserve	Uint 16	0		R	保留	
4071H	1	PV1Volt	UInt 16	- 1	V	R	PV1 电压	PV
4072Н	1	PV1Curr	UInt 16	2	A	R	PV1 总电流	
4073Н	1	PV1Power	UInt 16	0	W	R	PV1 功率	
4074H	1	PV2Volt	UInt 16	- 1	V	R	PV2 电压	
4075Н	1	PV2Curr	UInt 16	2	A	R	PV2 总电流	
4076Н	1	PV2Power	UInt 16	0	W	R	PV2 功率	
4077H	1	PV3Volt	UInt 16	- 1	V	R	PV3 电压	
4078H	1	PV3Curr	UInt	-	A	R	PV3 总电流	

			16	2				
4079Н	1	PV3Power	UInt 16	0	W	R	PV3 功率	
408DH	1	OnGridOutVolt	Uint 16	- 1	V	R	并网侧电压	
408EH	1	OnGridOutCurr	Uint 16	2	A	R	并网侧电流	
408FH	1	OnGridOutFreq	Uint 16	- 2	Hz	R	并网侧频率	网侧
4090H	1	OnGridOutPowerWatt	Uint 16	0	W	R	并网侧有功功率	
4091H	1	OnGridOutPowerVA	Uint 16	0	VA	R	并网侧视在功率	
4092H	3	Reserve	Uint 16	0		R	保留	
4095H	1	PV_direction	Uint 16	0		R	PV 能量流动方向	1: PV 能量流动 0: PV 无输出
4096Н	1	Battery_direction	int1 6	0		R	电池能量流动方向	1: 电池放电 0: 无电池能量流动 -1: 电池充电
4097Н	1	Grid_direction	int1	0		R	电网能量流动方向	1: 电网卖电 0: 无电网能量流动 -1: 电网买电
4098H	1	OutPut_direction	Uint 16	0		R	输出到负载能量流 动方向	1: 输出到负载 0: 无输出能量流动
40A0H	1	SysTotalLoadWatt	Int1 6	0	W	R	系统总负载消耗功 率	
40A1H	1	CT_GridPowerWatt	int1 6	0	W	R	CT 电网有功功率	
40A2H	1	CT_GridPowerVA	int1 6	0	VA	R	CT 电网视在功率	内部 CT 采集
40A3H	1	CT_PVPowerWatt	int1 6	0	W	R	CT PV 有功功率	PJOP CI 水朱
40A4H	1	CT_PVPowerVA	int1 6	0	VA	R	CT PV 视在功率	
40A5H	1	TotalPVPower	Int1 6	0	W	R	PV 总功率	
40A6H	1	TotalBatteryPower	Int1 6	0	W	R	电池总功率	大于 0 时,电池放电,小于 0, 电池充电
40A7H	1	TotalGridPowerWatt	Int1 6	0	W	R	电网总有功功率	
40A8H	1	TotalGridPowerVA	Int1 6	0	VA	R	电网总视在功率	
40A9H	1	TotalInvPowerWatt	Int1 6	0	W	R	逆变总有功功率	
40AAH	1	TotalInvPowerVA	Int1	0	VA	R	逆变总视在功率	

			6						
40ABH	1	BackupTotalLoadPo werWatt	Uint 16	0	W	R	Backup 总负载有 功功率		
40ACH	1	BackupTotalLoadPo werVA	Uint 16	0	VA	R	Backup 总负载视 在功率		
40ADH	1	SysGridPowerWall	Int1 6	0	W	R	系统电网有功功率	大于 0 时,机器买电,小于 0,机器卖电	
40B0H	1								
40B1H	11	Reserve	Uint 16	0		R	保留		
40BCH	1	Today_Hour	Uint 16	1	Н	R	PV 并网日发电时间		
40BDH	2	Total_Hour	Uint 32	1	Н	R	PV 并网总发电时间		
40BFH	2	Today_PVEnergy	Uint 32	2	Kw h	R	日 PV 发电量		
40C1H	2	Month_PVEnergy	Uint 32	2	Kw h	R	月 PV 发电量	PV1 发电量	
40C3H	2	Year_PVEnergy	Uint 32	2	Kw h	R	年 PV 发电量	「Ⅵ 及电車	
40C5H	2	Total_PVEnergy	Uint 32	2	Kw h	R	总 PV 发电量		
40C7H	2	Today_BatChgEnergy	Uint 32	- 2	Kw h	R	日电池充电电量		
40C9H	2	Month_BatChgEnergy	Uint 32	- 2	Kw h	R	月电池充电电量		
40CBH	2	Year_BatChgEnergy	Uint 32	- 2	Kw h	R	年电池充电电量	电池充电	
40CDH	2	Total_BatChgEnergy	Uint 32	- 2	Kw h	R	总电池充电电量		
40CFH	2	Today_BatDisEnergy	Uint 32	- 2	Kw h	R	日电池放电电量		
40D1H	2	Month_BatDisEnergy	Uint 32	2	kw h	R	月电池放电电量	电池放电	
40D3H	2	Year_BatDisEnergy	Uint 32	2	Kw h	R	年电池放电电量	七代以七	
40D5H	2	Total_BatDisEnergy	Uint 32	2	Kw h	R	总电池放电电量		
40D7H	2	Today_InvGenEnergy	Uint 32	- 2	Kw h	R	日逆变电量		
40D9H	2	Month_InvGenEnergy	Uint 32	- 2	Kw h	R	月逆变电量	光水山县	
40DBH	2	Year_InvGenEnergy	Uint 32	- 2	kw h	R	年逆变电量	一 逆变电量	
40DDH	2	Total_InvGenEnergy	Uint 32	- 2	Kw h	R	总逆变电量		

		Today_TotalLoadEnerg	Uint	_	Kw				
40DFH	2	y	32	2	h	R	日总负载消耗电量		
40E1II	2	Month_TotalLoadEnerg	Uint	_	Kw	ъ	口节互共源托山县		
40E1H	2	у	32	2	h	R	月总负载消耗电量	至	
40E3H	2	Year TotalLoadEnergy	Uint	_	Kw	R	年总负载消耗电量	系统负载消耗电量	
402511		real_rotailCoadEllergy	32	2	h	K	中心贝纨ብ杙电里		
40E5H	2	Total_TotalLoadEnergy	Uint	_	Kw	R	总总负载消耗电量		
400311	<u> </u>	Total_TotalLoadEllergy	32	2	h	K	心心贝敦伯代电重		
40E7H	2	Today_BackupLoadEne	Uint	_	Kw	R	日 BackUp 负载消耗		
TOLIN	2	rgy	32	2	h	1	电量		
40E9H	2	Month_BackupLoadEne	Uint	_	Kw	R	月 BackUp 负载消耗		
102311		rgy	32	2	h	10	电量	Backup 负载消耗电量	
40EBH	2	Year_BackupLoadEner	Uint	_	Kw	R	年 BackUp 负载消耗	Buckup 人名加尔巴里	
TOLDIT		gy	32	2	h		电量		
40EDH	2	Total_BackupLoadEner	Uint	_	Kw	R	总 BackUp 负载消耗		
102211		gy	32	2	h		电量		
40EFH	2	Today SellEnergy	Uint	_	kw	R	日系统卖电量		
102111		1 samy_senEnergy	32	2	h				
40F1H	2	Month SellEnergy	Uint	_	Kw	R	月系统卖电量		
101 111		manu_senEnergy	32	2	h		77717101	(R相电网CT采集) 卖电量	
40F3H	2	Year SellEnergy	Uint	_	Kw	R	年系统卖电量	旧版本是 并网发电量	
	_		32	2	h		1 74 75 8 22		
40F5H	2	Total SellEnergy	Uint	_	Kw	R	总系统卖电量		
			32	2	h				
40F7H	2	Today FeedInEnergy	Uint	_	Kw	R	日系统买电量		
		7_ 23	32	2	h				
40F9H	2	Month FeedInEnergy	Uint	_	Kw	R	月系统买电量		
			32	2	h		,,,,,,,,,,,,	(R相电网CT采集)买电量	
40FBH	2	Year FeedInEnergy	Uint	_	Kw	R	年系统买电量	旧版本是 电网馈入电量	
			32	2	h				
40FDH	2	Total_FeedInEnergy	Uint	-	Kw	R	总系统买电量		
			32	2	h				

Addre	SIZE(Word)	Register name	Data type	Rat	Un it	att rib ute	Register description	Notes
4000Н	4	Time	НЕХ	0		R	Current time in register	format yyyyMMddHHmmsszz yyyy: year MM: month dd: date HH: hour (24-hour) mm: minute ss: second zz: reserved bits 2015-1-2 10:11:12 corresponding 07DF 01 02 0A 0B 0C 00

		I				1		
								0 : Initialization 1 : Waiting 2 : Running 3 : Offnet mode, used for energy storage
4004H	1	MPVMode	Uint16			R	Inverter working mode	4 : Grid on-load mode, used for energy storage 5 : Fault 6 : Update 7 : Test
								8 : Self-checking 9 : Reset
4005H	2	HFaultMS	Uint32			R	Display board/slave error message	
4007H	2	MFaultMS G	Uint32			R	Master controller error message	
4009Н	2	MFaultMS G2	Uint32			R	Master controller error message 2	
400BH	2	Reserve				R	BMS error message	
400DH	2	Reserve				R	Reserve	
400FH	1	Error_Co	Uint16	0		R	Number of inverter error warning message	
4010H	1	SinkTemp C	Int16	-1	\mathbb{C}	R	Temperature of radiator	
4011H	1	AmbTempC	Int16	-1	\mathbb{C}	R	Environment temperature	
4012H	1	GFCI	Int16	0	mA	R	Electric leakage to the flood	
4013H	1	IS01	UInt16	0	k Ω	R	PV1+_ISO	
4014H	1	ISO2	UInt16	0	k Ω	R	PV2+_ISO	
4015H	1	IS03	UInt16	0	k Ω	R	PV3+_IS0	Oxffff
4016H	1	IS04	UInt16	0	k Ω	R	PVISO	
4017H	2						Reserved bit	
4019H	1	ConnTime	Uint16	0	S	R	Countdown for grid connection	
401AH	1	ErrorDat aSN	Uint16	0		R	Serial number of the fault recording area	Serial number of fault in the fault recording area. For each new fault, the serial number is increased by 1. If the serial number reaches the maximum value of 60000 and another fault is added, the serial number becomes 1;

The default va Maximum: 60000	
Serial number of	
401BH 1 SettingD Uint16 0 R the parameter If the data in	the Settings area has changed +1
ataSN setting area	
Running_ Pass-through i	nformation (for extended
401CH 6	ldition to the control board)
	1=separate time, 2=For
4022H 1 Int16 0 R application mode electricity, 3	
	oit charging, Prohibyted
BatStatu Battery working	ohibyted charging and discharge,
sDisp status	
strength charg	
0: No using ba	
1: Zheng Tai48	
2: plumbic aci	d
3: SAJ-CAN	
4: DYNESS-48V	
5: Guo Neng 48	35(deleted)
6: GH_485	
7: GH_CAN	
4028H 1 Battlett Int16 0 R Battery protocol 8: Pai Neng CA	AN
9: WECO	
10:UZ_CAN	
11:easyLi-CAN	
12:DYNESS-51V	
13:SAJ_B2	
20:dyness (DYN	NESS-H) Da Qing
21:pylon (SCOS	500) Pai Neng
22 saj_can	
BatChgSo	
4029H 1	
BatDisSo	
402AH 1 cDowLimi Int16 0 % R Battery set SOC_L 0-100	
t Pot DODG o	
402BH 1 BatDODSe Int16 0 % R Set battery DOD 0-100	
t a contract	
BatResSo Set the reserved	
402CH 1	
battery	
Meter Mod	
4030H 1 Int16 0 R was set 1: A single ph	nase meter
2: A three-pha	ase electric meter
4031H 1 RGridVol Uint16 -1 V R R phase grid Three-phase po	ower grid

		t					voltage
		RGridCur					R phase grid
4032H	1	r	Int16	-2	A	R	current
		RGridFre					R phase grid
4033H	1	q	Uint16	-2	Hz	R	frequency
							R phase grid DC
4034H	1	RGridDCI	Int16	0	mA	R	component
		RGridPow					R phase grid
4035H	1	erWatt	Int16	0	W	R	active power
		RGridPow					R phase grid
4036H	1	erVA	Uint16	0	W	R	apparent power
		RGridPow					R phase grid power
4037H	1	erPF	Int16	-3		R	factor
		SGridVol					S-phase grid
4038H	1	t	Uint16	-1	V	R	voltage
		SGridCur					S-phase grid
4039H	1	r	Int16	-2	A	R	current
		SGridFre					S-phase grid
403AH	1	q	Uint16	-2	Hz	R	frequency
		Ч					S-phase grid DC
403BH	1	SGridDCI	Int16	0	mA	R	component
		SGridPow					S-phase grid
403CH	1	erWatt	Int16	0	W	R	active power
		SGridPow					Apparent power of
403DH	1	erVA	Uint16	0	W	R	S-phase grid
		SGridPow					S-phase grid
403EH	1	erPF	Int16	-3		R	power factor
		TGridVol					T phase grid
403FH	1	t	Uint16	-1	V	R	voltage
		TGridCur					T-phase grid
4040H	1		Int16	-2	A	R	
		r					Current
4041H	1	TGridFre	Uint16	-2	Hz	R	T-phase grid
		q					frequency
4042H	1	TGridDCI	Int16	0	mA	R	Dc component of
		TO : ID					T-phase grid
4043H	1	TGridPow	Int16	0	W	R	T phase grid
		erWatt					active power
4044H	1	TGridPow	Uint16	0	W	R	Apparent power of
		erVA					T-phase grid
4045H	1	TGridPow	Int16	-3		R	T-phase grid
		erPF					power factor
4046H	1	RInvVolt	Uint16	-1	V	R	R phase inverter
							voltage
4047H	1	RInvCurr	Int16	-2	A	R	R phase inverse
							current
4048H	1	RInvFreq	Uint16	-2	Hz	R	R phase inverter

							frequency	
		RInvPowe					R phase inverting	
4049H	1	rWatt	Int16	0	W	R	active power	
		RInvPowe					R phase inverting	
404AH	1	rVA	Uint16	0	VA	R	apparent power	
							S phase inverter	
404BH	1	SInvVolt	Uint16	-1	V	R	voltage	
							S phase inverter	
404CH	1	SInvCurr	Int16	-2	A	R	current	
404DH	1	CI. Par	H:+1C	-2	11	R	S phase inverter	
404DU	1	SInvFreq	Uint16	-2	Hz	K	frequency	
404EH	1	SInvPowe	Int16	0	W	R	S-phase inverse	
TOTLI	1	rWatt	111110	Ů	"	IX	active power	
404FH	1	SInvPowe	Uint16	0	VA	R	S-phase inverting	
		rVA					apparent power	
4050H	1	TInvVolt	Uint16	-1	V	R	T phase inverting	
							voltage	
4051H	1	TInvCurr	Int16	-2	A	R	T phase inverse	
							current	
4052H	1	TInvFreq	Uint16	-2	Hz	R	T-phase inverting frequency	
		TInvPowe					T phase inverting	
4053H	1	rWatt	Int16	0	W	R	active power	
		TInvPowe					T-phase inverting	
4054H	1	rVA	Uint16	0	VA	R	apparent power	
405511	1	DO(V-1)	H: + 1.C	1	V	D	R phase output	
4055H	1	ROutVolt	Uint16	-1	V	R	voltage	
4056H	1	ROutCurr	Uint16	-2	A	R	R phase output	
400011	1	Routeum	OTHERO		11	IX	current	
4057H	1	ROutFreq	Uint16	-2	Hz	R	R phase output	
							frequency	-
							R phase output	
4058H	1	ROutDVI	Int16	0	mV	R	voltage DC	
							component The R phase	
4059H	1	ROutPowe	Uint16	0	W	R	outputs active	Off-grid output
700311	1	rWatt	0111010		"	IX	power	orr gira output
		ROutPowe					R phase output	
405AH	1	rVA	Uint16	0	VA	R	apparent power	
40===			***				S phase output	
405BH	1	SOutVolt	Uint16	-1	V	R	voltage	
40ECII	1	SOu+C	Hin+16	-2	Λ	D	S phase output	
405CH	1	S0utCurr	Uint16		A	R	current	
405DH	1	SOutFreq	Uint16	-2	Hz	R	S phase output	
							frequency	
405EH	1	SOutDVI	Int16	0	mV	R	S phase output	

							voltage DC	
							component	
		SOutPowe					S phase output	
405FH	1		Uint16	0	W	R	active power	
		rWatt SOutPowe					-	
4060H	1		Uint16	0	VA	R	S-phase output	
		rVA					apparent power	
4061H	1	TOutVolt	Uint16	-1	V	R	T phase output	
							voltage	
4062H	1	TOutCurr	Uint16	-2	A	R	T phase output	
							current	
4063H	1	TOutFreq	Uint16	-2	Hz	R	T phase output	
							frequency	
4064H	1	TOutDVI	Int16	0	mV	R	T phase output voltage DC	
400411	1	TOUTDVI	111110	0	IIIV	IX	component	
		TOutPowe						
4065H	1	rWatt	Uint16	0	W	R	T phase output active power	
		TOutPowe					T phase output	
4066H	1	rVA	Uint16	0	VA	R		
							apparent power	
4067H	1	BusVoltM	Uint16	-1	V	R	Host BUS voltage	
		aster					C1 DUC 1	Bus
4068H	1	BusVoltS	Uint16	-1	V	R	Slave BUS voltage	
		lave						
4069H	1	BatVolt	Uint16	-1	V	R	The battery voltage	
							The battery	
406AH	1	BatCurr	Int16	-2	A	R		
							Battery	
406BH	1	BatCurr1	Int16	-2	A	R	controller 1	
400011	1	DatCulli			Λ	K	Current	
							Battery	Battery on live
406CH	1	BatCurr2	Int16	-2	A	R	controller 2	battery on live
100011	1	Dateuriz			11	IX	Current	
406DH	1	BatPower	Int16	0	W	R	The battery power	
130011	1	Datiower	111010		"	11	Battery	
406EH	1	BatTempC	Int16	-1	$^{\circ}\mathbb{C}$	R	temperature	
		BatEnerg					Battery electri	
406FH	1	yPercent	Uint16	-2	%	R	Davidly diddil	
4070H	1	Reserve	Uint16	0		R	Reserve	
4071H	1	PV1Volt	UInt16	-1	V	R	PV1 voltage	PV
4072H	1	PV1Curr	UInt16	-2	A	R	Total current PV1	• •
4073H	1	PV1Power	UInt16	0	W	R	PV1 power	
4074H	1	PV2Volt	UInt16	-1	V V	R	PV2 voltage	
4074H	1	PV2Curr	UInt16	-2	A	R	Total current PV2	
4075H	1	PV2Power	UInt16	0	W	R	PV2 power	
4076H	1	PV3Volt	UInt16	-1	V	R	PV3 voltage	
407711	1	rvavolt	0111110	-1	٧	I/	rvo voltage	

4078H	1	PV3Curr	UInt16	-2	A	R	PV3 total current	
4079H	1	PV3Power	UInt16	0	W	R	PV3 power	
407AH	1	PV4Volt	UInt16	-1	V	R	PV4 voltage	
407BH	1	PV4Curr	UInt16	-2	A	R	PV4 total current	
407CH	1	PV4Power	UInt16	0	W	R	PV4 power	
	1	ROnGridO				R	R phase	
408DH		utVolt	Uint16	-1	V		grid-connected	
							side voltage	
	1	ROnGridO				R	Side current of R	
408EH		utCurr	Uint16	-2	A		phase	
							grid-connected	
	1	ROnGridO				R	Side frequency of	
408FH		utFreq	Uint16	-2	Hz		R phase	
							grid-connected	
	1	ROnGridO				R	Side active power	
4090H		utPowerW	Uint16	0	W		of R phase	
		att					grid-connected	
	1	SOnGridO				R	Side voltage of S	Side net
4091H		utVolt	Uint16	-2	A		phase	
							grid-connected	
	1	SOnGridO				R	Side active power	
4092H		utPowerW	Uint16	0	W		of S phase on the	
		att					grid-connected	
	1	TOnGridO				R	T phase	
4093H		utVolt	Uint16	-2	A		grid-connected	
							side voltage	
	1	TOnGrid0				R	T active power on	
4094H		utPowerW	Uint16	0	W		the	
		att					grid-connected	
							side	
4095H	1	PV_direc	Uint16	0		R	PV Direction of	1: PV energy flow
		tion					energy flow	0: PV no output
4000**		Battery_				, n	Direction of	1: The battery discharge
4096Н	1	directio	int16	0		R	battery energy	0: No battery energy flow
		n					flow	-1: The battery charge
400711		Grid_dir				D.	Direction of grid	1: Grid output
4097H	1	ection	int16	0		R	energy flow	0: No grid energy flow
							Dimention of	-1: Grid input
4098H	1	OutPut_d	Uint16	0		R	Direction of energy flow from	1: from output to load
4090П	1	irection	UTIILIO	0		I N		0: no output energy flow
							output to load The total system	
40A0H	1	SysTotal	Int16	0	W	R	load consumes	
TOTOLL	1	LoadWatt	111110		"	IV.	power	
		CT_GridP					CT real power of	
40A1H	1	owerWatt	int16	0	W	R	the grid	Internal CT acquisition
		Owerwalt					the griu	

		OT 0 1 1D					CIT. A	
40A2H	1	CT_GridP owerVA	int16	0	VA	R	CT Apparent power of the grid	
40A3H	1	CT_PVPow erWatt	int16	0	W	R	CT PV real power	
40A4H	1	CT_PVPow erVA	int16	0	VA	R	CT PV Apparent	
40A5H	1	TotalPVP ower	Int16	0	W	R	PV total power	
40A6H	1	TotalBat teryPowe r	Int16	0	W	R	Battery total power	
40A7H	1	TotalGri dPowerWa tt	Int16	0	W	R	Grid total real	
40A8H	1	TotalGri dPowerVA	Int16	0	VA	R	Grid total apparent power	
40A9H	1	TotalInv PowerWat t	Int16	0	W	R	Inverter total real power	
40AAH	1	TotalInv PowerVA	Int16	0	VA	R	Inverter total apparent power	
40 ABH	1	BackupTo talLoadP owerWatt	Uint16	0	W	R	Backup total load	
40ACH	1	BackupTo talLoadP owerVA	Uint16	0	VA	R	Backup total load apparent power	
40ADH	1	SysGridP owerWall	Int16	0	W	R	Gird system real	
40B0H	12	Reserve	Uint16	0		R	reserver	
40BCH	1	Today_Ho ur	Uint16	-1	Н	R	PV Grid-connected day generation time	
40BDH	2	Total_Ho ur	Uint32	-1	Н	R	PV Total grid-connected generation time	
40BFH	2	Today_PV Energy	Uint32	-2	Kw h	R	PV daily output	
40C1H	2	Month_PV Energy	Uint32	-2	Kw h	R	PV monthly output	PV1 output
40СЗН	2	Year_PVE nergy	Uint32	-2	Kw h	R	PV annual output	TVI Output
40C5H	2	Total_PV Energy	Uint32	-2	Kw h	R	PV total output	
40C7H	2	Today_Ba tChgEner	Uint32	-2	Kw h	R	Daily battery charge	Battery charge

		gy						
		Month_Ba					Monthly battery	
40C9H	2	tChgEner	Uint32	-2	Kw	R	charge	
		gy			h			
		Year_Bat			V		Annual battery	
40CBH	2	ChgEnerg	Uint32	-2	Kw h	R	charge	
		у			11			
		Total_Ba			Kw		Total battery	
40CDH	2	tChgEner	Uint32	-2	h	R	charge	
		gy						
		Today_Ba			Kw		Daily battery	
40CFH	2	tDisEner	Uint32	-2	h	R	discharge	
		ду					quantity	
	_	Month_Ba		_	kw		Monthly battery	
40D1H	2	tDisEner	Uint32	-2	h	R	discharge	
		gy Year_Bat					quantity Annual battery	Battery discharge
40D3H	2	DisEnerg	Uint32	-2	Kw	R	discharge	
400011	2	y	0111032		h	IX	quantity	
		Total_Ba					Total battery	
40D5H	2	tDisEner	Uint32	-2	Kw	R	discharge power	
		gy			h			
		Today_In					Daily inverse	
40D7H	2	vGenEner	Uint32	-2	Kw	R	electricity	
		gy			h			
		Month_In			Kw		Monthly inverse	
40D9H	2	vGenEner	Uint32	-2	h	R	electricity	
		gy			11			Inverter power
		Year_Inv			kw		Annual inverse	inference power
40DBH	2	GenEnerg	Uint32	-2	h	R	electricity	
		У						
		Total_In			Kw		Total inverse	
40DDH	2	vGenEner	Uint32	-2	h	R	power	
		gy Today To					Total daily last	
40DFH	2	Today_To talLoadE	Uint32	-2	Kw	R	Total daily load power consumption	
וויומטד		nergy	011102		h	IX	Power consumption	
		Month_To					Total monthly	
40E1H	2	talLoadE	Uint32	-2	Kw	R	load power	
		nergy			h		consumption	
		Year_Tot			17		Annual total load	The system load consumes power
40E3H	2	alLoadEn	Uint32	-2	Kw	R	power consumption	
		ergy			h			
		Total_To			Kw		Total load	
40E5H	2	talLoadE	Uint32	-2	h	R	consumes power	
		nergy			11		companies bower	

	1	I					T	T
40E7H	2	Today_Ba ckupLoad Energy	Uint32	-2	Kw h	R	BackUp daily load consumes power	
40Е9Н	2	Month_Ba ckupLoad Energy	Uint32	-2	Kw h	R	BackUp monthly load consumes power	
40EBH	2	Year_Bac kupLoadE nergy	Uint32	-2	Kw h	R	BackUp annual load consumes power	Backup load consumes power
40EDH	2	Total_Ba ckupLoad Energy	Uint32	-2	Kw h	R	BackUp total load consumes power	
40EFH	2	Today_Se 11Energy	Uint32	-2	kw h	R	Daily system sells electricity	
40F1H	2	Month_Se 11Energy	Uint32	-2	Kw h	R	Monthly system sells electricity	R phase grid sells electricity
40F3H	2	Year_Sel 1Energy	Uint32	-2	Kw h	R	Annual system sells electricity	
40F5H	2	Total_Se 11Energy	Uint32	-2	Kw h	R	Total system sells electricity	
40F7H	2	Today_Fe edInEner gy	Uint32	-2	Kw	R	Daily system buys	
40F9H	2	Month_Fe edInEner gy	Uint32	-2	Kw h	R	Monthly system buys electricity	
40FBH	2	Year_Fee dInEnerg	Uint32	-2	Kw h	R	Annual system buys electricity	R phase grid buys electricity
40FDH	2	Total_Fe edInEner gy	Uint32	-2	Kw h	R	Total system buys electricity	
4137H	2	Today_PV Energy2	Uint32	-2	Kw h	R	Daily PV2 Power generation	
4139Н	2	Month_PV Energy2	Uint32	-2	Kw h	R	Monthly PV2 Power generation	PV2 power generation
413BH	2	Year_PVE nergy2	Uint32	-2	Kw h	R	Annual PV2 Power generation	The power Scheration
413DH	2	Total_PV Energy2	Uint32	-2	Kw h	R	Total PV2 Power generation	
413FH	2	Today_PV Energy3	Uint32	-2	Kw h	R	Daily PV3 Power generation	
4141H	2	Month_PV Energy3	Uint32	-2	Kw h	R	Monthly PV3 Power generation	PV3 power generation
4143H	2	Year_PVE nergy3	Uint32	-2	Kw h	R	Annual PV3 Power generation	

4145H	2	Total_PV Energy3	Uint32	-2	Kw h	R	Total PV3 Power generation	
4147H	2	Today_Se 11Energy 2	Uint32	-2	kw h	R	Daily amount of Grid2 electricity sold	
4149Н	2	Month_Se 11Energy 2	Uint32	-2	Kw h	R	Monthly amount of Grid2 electricity sold	S phase grid sells electricity
414BH	2	Year_Sel 1Energy2	Uint32	-2	Kw h	R	Annual amount of Grid2 electricity sold	o phase are serie electrony
414DH	2	Total_Se 11Energy 2	Uint32	-2	Kw h	R	Total amount of Grid2 electricity sold	
414FH	2	Today_Se 11Energy 3	Uint32	-2	kw h	R	Daily amount of Grid3 electricity sold	
4151H	2	Month_Se 11Energy 3	Uint32	-2	Kw h	R	Monthly amount of Grid3 electricity sold	
4153H	2	Year_Sel 1Energy3	Uint32	-2	Kw h	R	Annual amount of Grid3 electricity sold	T phase grid sells electricity
4155H	2	Total_Se 11Energy 3	Uint32	-2	Kw h	R	Total amount of Grid3 electricity sold	
4157H	2	Today_Fe edInEner gy2	Uint32	-2	Kw h	R	Daily amount of Grid2 electricity bought	
4159H	2	Month_Fe edInEner gy2	Uint32	-2	Kw h	R	Monthly amount of Grid2 electricity bought	S phase grid buys electricity
415BH	2	Year_Fee dInEnerg y2	Uint32	-2	Kw h	R	Annual amount of Grid2 electricity bought	5 phase gift buys electricity
415DH	2	Total_Fe edInEner gy2	Uint32	-2	Kw h	R	Total amount of Grid2 electricity bought	
415FH	2	Today_Fe edInEner gy3	Uint32	-2	Kw h	R	Daily amount of Grid3 electricity bought	
4161H	2	Month_Fe edInEner gy3	Uint32	-2	Kw	R	Monthly amount of Grid3 electricity bought	T phase grid buys electricity
4163H	2	Year_Fee dInEnerg	Uint32	-2	Kw h	R	Annual amount of Grid3 electricity	

4.4peripheral device data 寄存器定义(选读) Peripheral device data register definition (read section)

地址	SIZE(Wo rd)	寄存器名	数据类型	倍率	单 位	属性	寄存器描述	备注
A000H	1	BatNum	Uint16	0		R	电池数量	
A001H	1	BatCapcity	UInt16	0	AH	R	电池容量	
A002H	1	Bat1FaultMSG	Uint16	0		R	BMS 电池1故障信息	
A003H	1	Bat1WarnMSG	Uint16	0		R	BMS 电池1告警信息	
A004H	1	Bat2FaultMSG	Uint16	0		R	BMS 电池 2 故障信息	
A005H	1	Bat2WarnMSG	Uint16	0		R	BMS 电池 2 告警信息	
А006Н	1	Bat3FaultMSG	Uint16	0		R	BMS 电池 3 故障信息	
A007H	1	Bat3WarnMSG	Uint16	0		R	BMS 电池 3 告警信息	
A008H	1	Bat4FaultMSG	Uint16	0		R	BMS 电池 4 故障信息	
А009Н	1	Bat4WarnMSG	Uint16	0		R	BMS 电池 4 告警信息	
A00AH	1	BatUserCap	Uint16	0		R	可用容量	
A00BH	1	BatOnline	Uint16	0		R	电池在线位置信息	
А00СН	1	Bat1SOC	Uint16	2	%	R	BMS 电池 1SOC	
AOODH	1	Bat1SOH	Uint16	2	%	R	BMS 电池 1SOH	
АООЕН	1	Bat1Voltage	Uint16	- 1	V	R	BMS 电池 1 电压	电池 BMS 信息
A00FH	1	Bat1Current	int16	- 2	A	R	BMS 电池 1 电流	
A010H	1	Bat1Temperature	int16	- 1	°C	R	BMS 电池 1 温度	
A011H	1	Bat1CycleNum	Uint16	0		R	BMS 电池1循环次数	
A012H	1	Bat2SOC	Uint16	2	%	R	BMS 电池 2SOC	
A013H	1	Bat2SOH	Uint16	- 2	%	R	BMS 电池 2SOH	
A014H	1	Bat2Voltage	Uint16	- 1	V	R	BMS 电池 2 电压	
A015H	1	Bat2Current	int16	- 2	A	R	BMS 电池 2 电流	
A016H	1	Bat2Temperature	int16	- 1	°C	R	BMS 电池 2 温度	

A017H	1	Bat2CycleNum	Uint16	0		R	BMS 电池 2 循环次数	
A018H	1	Bat3SOC	Uint16	2	%	R	BMS 电池 3SOC	
А019Н	1	Bat3SOH	Uint16	2	%	R	BMS 电池 3SOH	
A01AH	1	Bat3Voltage	Uint16	1	V	R	BMS 电池 3 电压	
A01BH	1	Bat3Current	int16	2	A	R	BMS 电池 3 电流	
A01CH	1	Bat3Temperature	int16	- 1	°C	R	BMS 电池 3 温度	
AO1DH	1	Bat3CycleNum	Uint16	0		R	BMS 电池 3 循环次数	
A01EH	1	Bat4SOC	Uint16	2	%	R	BMS 电池 4SOC	
A01FH	1	Bat4SOH	Uint16	2	%	R	BMS 电池 4SOH	
А020Н	1	Bat4Voltage	Uint16	- 1	V	R	BMS 电池 4 电压	
A021H	1	Bat4Current	int16	2	A	R	BMS 电池 4 电流	
А022Н	1	Bat4Temperature	int16	1	°C	R	BMS 电池 4 温度	
A023H	1	Bat4CycleNum	Uint16	0		R	BMS 电池 4 循环次数	
A02AH	1	Bat1DischarCapH	Uint16	0	kW h	R	电池组 1 放电总能量 H	
А02ВН	1	Bat1DischarCapL	Uint16	0	kW h	R	电池组 1 放电总能量 L	
A02CH	1	Bat2DischarCapH	Uint16	0	kW h	R	电池组2放电总能量 H	
A02DH	1	Bat2DischarCapL	Uint16	0	kW h	R	电池组 2 放电总能量 L	
А02ЕН	1	Bat3DischarCapH	Uint16	0	kW h	R	电池组 3 放电总能量 H	
A02FH	1	Bat3DischarCapL	Uint16	0	kW h	R	电池组 3 放电总能量 L	
А030Н	1	Bat4DischarCapH	Uint16	0	kW h	R	电池组 4 放电总能量 H	
A031H	1	Bat4DischarCapL	Uint16	0	kW h	R	电池组 4 放电总能量 L	
A032H	1	BatProtHigh	UInt16	-1	V	R	电池过高保护点	
A033H	1	BatProtLow	UInt16	-1	V	R	电池低压告警点	
A034H	1	Bat_Chagevoltage	UInt16	-1	V	R	充电电压 (充电截止)	
A035H	1	Bat_DisCutOffVolt	UInt16	-1	V	R	放电截止电压	
A036H	1	BatDisCurrLimit	UInt16	-1	A	R	电池放电限制电流	
A037H	1	BatChaCurrLimit	UInt16	-1	A	R	电池充电限制电流	

А03СН	1	Meter_A_Status	Uint16	0		R	 Meter表A状态	0: 不在线; 1: 在线
A03DH	1	Meter_A_Volt1	Uint16	- 1	V	R	Meter_A_电压 1	
А03ЕН	1	Meter_A_Curr1	int16	- 2	A	R	Meter_A_电流 1	
A03FH	1	Meter_A_PowerW att1	int16	0	W	R	Meter 有功功率 1	
A040H	1	Meter_A_PowerV A1	Uint16	0	VA	R	Meter 视在功率 1	
A041H	1	Meter_A_PowerFa	Int16	- 3		R	Meter_A_功率因数 1	
A042H	1	Meter_A_Freq1	Uint16	- 2	Hz	R	Meter_A_频率1	
A053H	1	Meter_B_Status	Uint16	0		R	Meter_B表状态	0: 不在线; 1: 在线
A054H	1	Meter_B_Volt1	Uint16	- 1	V	R	Meter_B_电压 1	
A055H	1	Meter_B_Curr1	int16	- 2	A	R	Meter_B_电流 1	
А056Н	1	Meter_B_PowerWa tt1	int16	0	W	R	Meter_B 有功功率 1	
А057Н	1	Meter_B_PowerV	Uint16	0	VA	R	Meter_B 视在功率1	
A058H	1	Meter_B_PowerFa ctor1	Int16	3		R	Meter_B_功率因数 1	
А059Н	1	Meter_B_Freq1	Uint16	- 2	Hz	R	Meter_B_频率1	
A05AH	1	Meter_B_Volt2	Uint16	- 1	V	R	Meter_B_电压 2	
А05ВН	1	Meter_B_Curr2	int16	- 2	A	R	Meter_B_电流 2	
А05СН	1	Meter_B_PowerWa tt2	int16	0	W	R	Meter_B 有功功率 2	
A05DH	1	Meter_B_PowerV A2	Uint16	0	VA	R	Meter_B 视在功率 2	
АО5ЕН	1	Meter_B_PowerFa ctor2	Int16	3		R	Meter_B_功率因数 2	
A05FH	1	Meter_B_Freq2	Uint16	- 2	Hz	R	Meter_B_频率 2	
А060Н	1	Meter_B_Volt3	Uint16	- 1	V	R	Meter_B_电压 3	
A061H	1	Meter_B_Curr3	int16	2	A	R	Meter_B_电流 3	
А062Н	1	Meter_B_PowerWa tt3	int16	0	W	R	Meter_B 有功功率 3	
A063H	1	Meter_B_PowerV	Uint16	0	VA	R	Meter_B 视在功率3	

		A3						
A064H	1	Meter_B_PowerFa ctor3	Int16	3		R	Meter_B_功率因数 3	
A065H	1	Meter_B_Freq3	Uint16	2	Hz	R	Meter_B_频率 3	

Address	SIZE (Word)	Register name	Data type	Rat io	Uni t	atr rib ute	Register description	notes
А000Н	1	BatNum	Uint 16	0		R	Battery number	
A001H	1	BatCapcity	UInt 16	0	АН	R	Battery capacity	
А002Н	1	Bat1FaultMSG	Uint 16	0		R	BMS battery 1 error information	
А003Н	1	Bat1WarnMSG	Uint 16	0		R	BMS battery 1 warning information	
A004H	1	Bat2FaultMSG	Uint 16	0		R	BMS battery 2 error information	
A005H	1	Bat2WarnMSG	Uint 16	0		R	BMS battery 2 warning information	Battery BMS information
А006Н	1	Bat3FaultMSG	Uint 16	0		R	BMS battery 3 error information	
А007Н	1	Bat3WarnMSG	Uint 16	0		R	BMS battery 3 warning information	
A008H	1	Bat4FaultMSG	Uint 16	0		R	BMS battery 4 error information	
А009Н	1	Bat4WarnMSG	Uint 16	0		R	BMS battery 4 warning information	
АООАН	1	BatUserCap	Uint1	0		R	Available capacity	
АООВН	1	BatOnline	Uint1 6	0		R	Indicates the online battery position	
АООСН	1	Bat1SOC	Uint 16	-2	%	R	BMS battery 1 SOC	
AOODH	1	Bat1SOH	Uint 16	-2	%	R	BMS battery 1 SOH	
А00ЕН	1	Bat1Voltage	Uint 16	-1	V	R	BMS battery1 voltage	
A00FH	1	Bat1Current	int1 6	-2	A	R	BMS battery 1 current	
A010H	1	Bat1Temperature	int1	-1	°C	R	Temperature of BMS	

			6				battery1	
			Uint				BMS battery 1	
A011H	1	Bat1CycleNum	16	0		R	cycles	
			Uint					
A012H	1	Bat2SOC	16	-2	%	R	BMS battery 2SOC	
			Uint					
A013H	1	Bat2SOH	16	-2	%	R	BMS battery 2SOH	
			Uint	_			BMS battery 2	
A014H	1	Bat2Voltage	16	-1	V	R	voltage	
404			int1			_	BMS battery 2	
A015H	1	Bat2Current	6	-2	A	R	current	
401011		D .0T	int1	1	0.0	Ъ	BMS battery 2	
A016H	1	Bat2Temperature	6	-1	°C	R	temperature	
101711	1	Dat2C1-NI	Uint	0		D	BMS battery 2	
A017H	1	Bat2CycleNum	16		L	R	cycles	
A018H	1	Bat3SOC	Uint	-2	%	R	BMS battery 3SOC	
VATOII	1	Daissoc	16		/0	ıx .	Date 1 y 3300	
A019H	1	Bat3SOH	Uint	-2	%	R	BMS battery 3SOH	
1101011	1	Dailyson	16		/0		Date Duttery 00011	
AO1AH	1	Bat3Voltage	Uint	-1	V	R	BMS battery 3	
11011111		Data Voluge	16	1	Ĺ		voltage	
AO1BH	1	Bat3Current	int1	-2	A	R	BMS battery 3	
			6				current	
A01CH	1	Bat3Temperature	int1	-1	°C	R	BMS battery 3	
		1	6				temperature	
AO1DH	1	Bat3CycleNum	Uint	0		R	BMS battery 3	
			16				cycles	
A01EH	1	Bat4SOC	Uint	-2	%	R	BMS battery 4SOC	
			16					
A01FH	1	Bat4SOH	Uint	-2	%	R	BMS battery 4SOH	
			16				DMC hottomy 4	
A020H	1	Bat4Voltage	Uint 16	-1	V	R	BMS battery 4	
			16		-		voltage PMS bettery 4	
A021H	1	Bat4Current	int1 6	-2	A	R	BMS battery 4 current	
			int1				BMS battery 4	
A022H	1	Bat4Temperature	6	-1	°C	R	temperature	
			Uint				BMS battery 4	
A023H	1	Bat4CycleNum	16	0		R	cycles	
			10				Battery pack 1	
AO2AH	1	Bat1DischarCap	Uint1	0	kW	R	total discharge	
	-	Н	6		h		energy H	
							Battery pack 1	
AO2BH	1	Bat1DischarCap	Uint1	0	kW	R	total discharge	
-		L	6		h		energy L	
A02CH	1	Bat2DischarCap	Uint1	0	kW	R	Battery pack 2	

		Н	6		h		total discharge	
							energy H	
							Battery pack 2	
AO2DH	1	Bat2DischarCap	Uint1	0	kW	R	total discharge	
1102511	-	L	6		h		energy L	
							Battery pack 3	
A02EH	1	Bat3DischarCap	Uint1	0	kW	R	total discharge	
MOZEII	1	Н	6		h		energy H	
							Battery pack 3	
A02FH	1	Bat3DischarCap	Uint1	0	kW	R	total discharge	
NOZITI	1	L	6		h		energy L	
							Battery pack 4	
102011	1	Bat4DischarCap	Uint1	0	kW	R		
А030Н	1	Н	6	0	h	K	total discharge	
							energy H	
400111		Bat4DischarCap	Uint1		kW	_	Battery pack 4	
A031H	1	L	6	0	h	R	total discharge	
							energy L	
A032H	1	BatProtHigh	UInt1	-1	V	R	Battery voltage high	
			6				protection	
A033H	1	BatProtLow	UInt1	-1	V	R	Battery voltage low	
			6				warning	
A034H	1	Bat_Chagevoltag	UInt1	-1	V	R	Charge voltage	
		e	6	-	ļ .		(Charge cut-off)	
A035H	1	Bat_DisCutOffV	UInt1	-1	V	R	Discharge cut-off	
1100011		olt	6	1	ľ	1	voltage	
А036Н	1	BatDisCurrLimit	UInt1	-1	A	R	Battery discharge	
noon		BatDiscurreniit	6	1	11	IX.	current limit	
A037H	1	BatChaCurrLimit	UInt1	-1	A	R	Battery charge current	
AUSTII	1	BatchacurEllint	6	-1	Λ	K	limit	
A03CH	1	Mater A Status	Uint	0		R	Meter A status	0: offline; 1: online
АОЗСП	1	Meter_A_Status	16	0		K	meter A Status	0:01111ne; 1:0111ne
VOODII	1	N. 4 A 37 141	Uint	1	V	n	M. 4 A 1	
AO3DH	1	Meter_A_Volt1	16	-1	ľ	R	Meter_A_voltage 1	
AOOEII	1	M 4 A C 1	int1	0		D	Water A sussessed 1	
АОЗЕН	1	Meter_A_Curr1	6	-2	A	R	Meter_A_current 1	
ACODII	1	Meter_A_Power	int1	0	***	Ъ	M 1 1	
A03FH	1	Watt1	6	0	W	R	Meter A real power1	
404077		Meter_A_Power	Uint				Meter A apparent	
A040H	1	VA1	16	0	VA	R	power 1	
		Meter_A_Power	Int1	_			Meter_A_power	
A041H	1	Factor1	6	-3		R	factor 1	
			Uint					
A042H	1	Meter_A_Freq1	16	-2	Hz	R	Meter_A_ frequency 1	
			Uint					
A053H	1	Meter_B_Status	16	0		R	Meter B status	0: offline; 1: online
A054H	1	Meter_B_Volt1	Uint	-1	V	R	Meter_B_voltage 1	
1100 111				1				

			16				
A055H	1	Meter_B_Curr1	int1 6	-2	A	R	Meter_B_current 1
А056Н	1	Meter_B_Power Watt1	int1 6	0	W	R	Meter B real power1
А057Н	1	Meter_B_Power VA1	Uint 16	0	VA	R	Meter B apparent power 1
A058H	1	Meter_B_Power Factor1	Int1 6	-3		R	Meter_B_power factor 1
А059Н	1	Meter_B_Freq1	Uint 16	-2	Hz	R	Meter_B_ frequency 1
A05AH	1	Meter_B_Volt2	Uint 16	-1	V	R	Meter_B_voltage 2
А05ВН	1	Meter_B_Curr2	int1 6	-2	A	R	Meter_B_current 2
А05СН	1	Meter_B_Power Watt2	int1 6	0	W	R	Meter B real power 2
A05DH	1	Meter_B_Power VA2	Uint 16	0	VA	R	Meter B apparent power 2
А05ЕН	1	Meter_B_Power Factor2	Int1 6	-3		R	Meter_B_power factor 2
A05FH	1	Meter_B_Freq2	Uint 16	-2	Hz	R	Meter_B_ frequency 2
А060Н	1	Meter_B_Volt3	Uint 16	-1	V	R	Meter_B_voltage 3
A061H	1	Meter_B_Curr3	int1 6	-2	A	R	Meter_B_current 3
A062H	1	Meter_B_Power Watt3	int1 6	0	W	R	Meter B real power 3
А063Н	1	Meter_B_Power VA3	Uint 16	0	VA	R	Meter B apparent power 3
A064H	1	Meter_B_Power Factor3	Int1 6	-3		R	Meter_B_power factor 3
A065H	1	Meter_B_Freq3	Uint 16	-2	Hz	R	Meter_B_ frequency 3

4.5Setting Data 寄存器定义 Setting Data Register definition

地址	S	寄存器名	数	倍	单	属	寄存器描述	备注	默	设	设置
	I		据	率	位	性			认	置	范围
	Z		类						值	范	最大
	E		型							围	值
										最	
	W									小	
	О									值	

	r									
	d									
)									
3604Н	1	Charge_tim e_enable_c ontrol	Ui nt 16	0	R / W	充电时间设 置使能位	每位为1表示第几条使能充电时间,第 0位为第一条,第1位为第二条···	0	0	127
3605Н	1	Discharge_ time_enabl e_control	Ui nt 16	0	R / W	放电时间设 置使能位	每位为1表示第几条 使能放电时间, 第0位为第一条,第1位为第二条…	0	0	127
3606Н	1	First_charge_ start_time	H E X	0	R / W	第一条充电 起始时间	高字节为小时,低字节为分钟; hh : mm	0	0	0x17 3B(2 3:59
3607Н	1	First_charge_ end_time	H E X	0	R / W	第一条充电 结束时间	高字节为小时,低字节为分钟; hh: mm	0		0x17 3B(2 3:59
3608H	1	First_charge_ power_time	H E X	0	R / W	第一条充电 日期和功率	高字节表示星期几,每位置一使能,如 0b0100表示星期三;低位表示功率,如1 表示机型标准功率的百分之1			
3609Н	1	Second_charg e_start_time	H E X	0	R / W	第二条充电 起始时间	高字节为小时,低字节为分钟; hh : mm	0	0	0x17 3B(2 3:59
360AH	1	Second_charg e_end_time	H E X	0	R / W	第二条充电 结束时间	高字节为小时,低字节为分钟; hh : mm	0		0x17 3B(2 3:59
360BH	1	Second_charg e_power_tim e	H E X	0	R / W	第二条充电 日期和功率	高字节表示星期几,每位置一使能,如 0b0100表示星期三;低位表示功率,如1 表示机型标准功率的百分之1			
360CH	1	Third_charge _start_time	H E X	0	R / W	第三条充电 起始时间	高字节为小时,低字节为分钟; hh : mm	0	0	0x17 3B(2 3:59
360DH	1	Third_charge _end_time	H E X	0	R / W	第三条充电 结束时间	高字节为小时,低字节为分钟; hh : mm	0		0x17 3B(2 3:59
360ЕН	1	Third_charge _power_time	H E X	0	R / W	第三条充电 日期和功率	高字节表示星期几,每位置一使能,如 0b0100表示星期三;低位表示功率,如1 表示机型标准功率的百分之1			
360FH	1	Fourth_charg e_start_time	H E X	0	R / W	第四条充电 起始时间	高字节为小时,低字节为分钟; hh : mm	0	0	0x17 3B(2 3:59

3610Н	1	Fourth_charg e_end_time	H E X	0	R / W	第四条充电 结束时间	高字节为小时,低字节为分钟; hh : mm	0		0x17 3B(2 3:59
3611Н	1	Fourth_charg e_power_tim e	H E X	0	R / W	第四条充电 日期和功率	高字节表示星期几,每位置一使能,如 0b0100表示星期三;低位表示功率,如1 表示机型标准功率的百分之1			
3612Н	1	Fifth_charge_ start_time	H E X	0	R / W	第五条充电起始时间	高字节为小时,低字节为分钟; hh : mm	0	0	0x17 3B(2 3:59
3613Н	1	Fifth_charge_ end_time	H E X	0	R / W	第五条充电 结束时间	高字节为小时,低字节为分钟; hh : mm	0		0x17 3B(2 3:59
3614Н	1	Fifth_charge_ power_time	H E X	0	R / W	第五条充电 日期和功率	高字节表示星期几,每位置一使能,如 0b0100表示星期三;低位表示功率,如1 表示机型标准功率的百分之1			
3615Н	1	Sixth_charge _start_time	H E X	0	R / W	第六条充电起始时间	高字节为小时,低字节为分钟; hh : mm	0	0	0x17 3B(2 3:59
3616Н	1	Sixth_charge _end_time	H E X	0	R / W	第六条充电 结束时间	高字节为小时,低字节为分钟; hh : mm	0		0x17 3B(2 3:59
3617Н	1	Sixth_charge _power_time	H E X	0	R / W	第六条充电 日期和功率	高字节表示星期几,每位置一使能,如 0b0100表示星期三;低位表示功率,如1 表示机型标准功率的百分之1			
3618Н	1	Seventh_char ge_start_time	H E X	0	R / W	第七条充电 起始时间	高字节为小时,低字节为分钟; hh : mm	0	0	0x17 3B(2 3:59
3619Н	1	Seventh_char ge_end_time	H E X	0	R / W	第七条充电 结束时间	高字节为小时,低字节为分钟; hh : mm	0		0x17 3B(2 3:59
361AH	1	Seventh_char ge_power_ti me	H E X	0	R / W	第七条充电 日期和功率	高字节表示星期几,每位置一使能,如 0b0100表示星期三;低位表示功率,如1 表示机型标准功率的百分之1			
361ВН	1	First_dischar ge_start_time	H E X	0	R / W	第一条放电 起始时间	高字节为小时,低字节为分钟; hh : mm	0	0	0x17 3B(2 3:59
361CH	1	First_dischar ge_end_time	H E	0	R /	第一条放电 结束时间	高字节为小时,低字节为分钟; hh : mm	0		0x17 3B(2

			X		W					3:59
361DH	1	First_dischar ge_power_ti me	H E X	0	R / W	第一条放电 日期和功率	高字节表示星期几,每位置一使能,如 0b0100表示星期三;低位表示功率,如1 表示机型标准功率的百分之1			,
361ЕН	1	Second_disch arge_start_ti me	H E X	0	R / W	第二条放电 起始时间	高字节为小时,低字节为分钟; hh : mm	0	0	0x17 3B(2 3:59
361FH	1	Second_disch arge_end_tim e	H E X	0	R / W	第二条放电 结束时间	高字节为小时,低字节为分钟; hh : mm	0		0x17 3B(2 3:59
3620Н	1	Second_disch arge_power_t ime	H E X	0	R / W	第二条放电 日期和功率	高字节表示星期几,每位置一使能,如 0b0100表示星期三;低位表示功率,如1 表示机型标准功率的百分之1			
3621Н	1	Third_dischar ge_start_time	H E X	0	R / W	第三条放电 起始时间	高字节为小时,低字节为分钟; hh : mm	0	0	0x17 3B(2 3:59
3622Н	1	Third_dischar ge_end_time	H E X	0	R / W	第三条放电 结束时间	高字节为小时,低字节为分钟; hh : mm	0		0x17 3B(2 3:59
3623Н	1	Third_dischar ge_power_ti me	H E X	0	R / W	第三条放电 日期和功率	高字节表示星期几,每位置一使能,如 0b0100表示星期三;低位表示功率,如1 表示机型标准功率的百分之1			
3624Н	1	Fourth_disch arge_start_ti me	H E X	0	R / W	第四条放电 起始时间	高字节为小时,低字节为分钟; hh : mm	0	0	0x17 3B(2 3:59
3625Н	1	Fourth_disch arge_end_tim e	H E X	0	R / W	第四条放电 结束时间	高字节为小时,低字节为分钟; hh : mm	0		0x17 3B(2 3:59
3626Н	1	Fourth_disch arge_power_t ime	H E X	0	R / W	第四条放电 日期和功率	高字节表示星期几,每位置一使能,如 0b0100表示星期三;低位表示功率,如1 表示机型标准功率的百分之1			
3627Н	1	Fifth_dischar ge_start_time	H E X	0	R / W	第五条放电 起始时间	高字节为小时,低字节为分钟; hh : mm	0	0	0x17 3B(2 3:59
3628H	1	Fifth_dischar ge_end_time	H E X	0	R / W	第五条放电 结束时间	高字节为小时,低字节为分钟; hh : mm	0		0x17 3B(2 3:59

3629Н	1	Fifth_dischar	H E	0	R /	第五条放电 日期和功率	高字节表示星期几,每位置一使能,如 0b0100表示星期三;低位表示功率,如1			
002311	1	me	X		W	H /91/10-23 —	表示机型标准功率的百分之1			
362AH	1	Sixth_dischar ge_start_time	H E X	0	R / W	第六条放电起始时间	高字节为小时,低字节为分钟; hh : mm	0	0	0x17 3B(2 3:59
362ВН	1	Sixth_dischar ge_end_time	H E X	0	R / W	第六条放电 结束时间	高字节为小时,低字节为分钟; hh : mm	0		0x17 3B(2 3:59
362CH	1	Sixth_dischar ge_power_ti me	H E X	0	R / W	第六条放电 日期和功率	高字节表示星期几,每位置一使能,如 0b0100表示星期三;低位表示功率,如1 表示机型标准功率的百分之1			
362DH	1	Seventh_disc harge_start_ti me	H E X	0	R / W	第七条放电起始时间	高字节为小时,低字节为分钟; hh : mm	0	0	0x17 3B(2 3:59
362ЕН	1	Seventh_disc harge_end_ti me	H E X	0	R / W	第七条放电 结束时间	高字节为小时,低字节为分钟; hh : mm	0		0x17 3B(2 3:59
362FH	1	Seventh_disc harge_power _time	H E X	0	R / W	第七条放电 日期和功率	高字节表示星期几,每位置一使能,如 0b0100表示星期三;低位表示功率,如1 表示机型标准功率的百分之1			
3630Н	1	Meter_enable	Ui nt 16	0	R / W	电表接线方式	0: 关闭电表使能1: 一个单相电表2: 一个三相三线电表3: 一个三相四线电表	0	0	3
3631Н	1	Meter_addr	Ui nt 16	0	R / W	电表的通讯 地址	1 - 255	1	1	255
3632Н	1	Buzzer_on-of f	Ui nt 16	0	R / W	蜂鸣器开关 使能	0: 使能, 1: 禁止	1	0	1
3633Н	1	RS485_Addr	Ui nt 16		R / W	RS485 通讯地 址	1 [~] 127	1	1	127
3634Н	1	RS485_BaudR ate	Ui nt 16		R / W	RS485 通讯波 特率	0 为 115200, 1 为 57600, 2 为 38400, 3 为 19200, 4 为 9600, 5 为 4800, 6 为 2400, 7 为 1200	0	0	7
3635Н	1	PreventReve rseFlow_ena ble	Ui nt 16		R / W	防逆流主从 模式	0 为关,不使能 1 为开,使能,主机模式,读取电表数据 2 为开,使能,从机模式,外部通讯模块写 数据	1	0	2
3636Н	1	Passive_cha	Ui		R	被动充放电	0: 待机1: 放电2: 充电	0	0	2

		rge_enable	nt 16			/ W	使能				
3637Н	1	Passive_Gri dChargePowe r	Ui nt 16	- 3	%	R / W	被动电网充 电功率	被动模式生效	1 1 0 0	0	1100
3638H	1	Passive_Gri dDisChargeP ower	Ui nt 16	- 3	%	R / W	被动电网放 电功率	被动模式生效	1 1 0 0	0	1100
3639Н	1	Passive_Bat ChargePower	Ui nt 16	- 3	%	R / W	被动电池充电功率	被动模式生效	1 1 0 0	0	1100
363AH	1	Passive_Bat DisChargePo wer	Ui nt 16	- 3	%	R / W	被动电池放电功率	被动模式生效	1 1 0 0	0	1100
363BH	1	Battery_proto col	Ui nt 16	0		R / W	电池协议(电 池品牌)	0: 不使用电池 2: 铅酸 20:dyness (DYNESS-H) 大秦 21:pylon (SC0500) 派能 22 B2_can	0	0	22
3642Н	1	ReturnFHyst eresis	UI nt 16	2	H	R / W	返回频率滞 后	澳洲 FCAS	1 5	0	15
3643H	1	BatAutoWak eEn	UI nt 16			R / W	电池自动唤 醒功能		0	0	1
3644Н	1	BatOnGridD isDepth	UI nt 16	0	%	R / W	电池并网放 电下限		2 0	5	100
3645Н	1	BatOffGrid DisDepth	UI nt 16	0	%	R / W	电池离网放 电下限		1 0	5	100
3646Н	1	BatcharDep th	UI nt 16	0	%	R / W	电池容量充 电上限		1 0 0	2 0	100
3647Н	1	AppMode	UI nt 16			R / W	逆变器应用 模式	0x00 Self-use_mode 0x01 time_mode 0x02 backup_mode 0x03 passive_mode 0x0E old mode	1 4	0	14
364DH	1	BatChargeP ower	UI nt 16	3	%	R / W	电池充电功 率限制		1 1 0	0	1100

									0		
364ЕН	1	BatDischar gePower	UI nt 16	- 3	%	R / W	电池放电功 率限制		1 1 0 0	0	1100
364FH	1	GridCharge Power	UI nt 16	3	%	R / W	电网最大买 电功率		1 1 0 0	0	1100
3650Н	1	GridDischa rgePower	UI nt 16	3	%	R / W	电网最大卖 电功率		1 1 0 0	0	1100
3651Н	1	BatSocLimi tkeep	UI nt 16		%	R / W	后备 SOC 预 留值	后备模式下生效	1 0 0	2 0	100
3652Н	1	Bat_OffGri dDisCutOff Volt	UI nt 16		%	R / W	离网放电截 止电压	铅酸电池生效	8 5 0	8 5 0	4500
3653Н	1	Bat_Charge voltage	UI nt 16	1	V	R / W	充电电压 (充电截 止)	铅酸电池生效	4 5 0 0	8 5 0	4500
3654H	1	Bat_OnGrid DisCutOffV olt	UI nt 16	- 1	V	R / W	并网放电截 止电压	铅酸电池生效	8 5 0	8 5 0	4500
3655Н	1	BatProtHigh	UI nt 16	- 1	V	R / W	电池过高保 护点	铅酸电池生效	4 5 0 0	8 5 0	4500
3656Н	1	BatProtLow	UI nt 16	- 1	V	R / W	电池低压告 警点	铅酸电池生效	8 5 0	8 5 0	4500
3657Н	1	BatDisCurr Limit	UI nt 16	- 1	A	R / W	电池放电限 制电流	铅酸电池生效	3 0 0	0	300
3658H	1	BatChaCurr Limit	UI nt 16	- 1	A	R / W	电池充电限 制电流	铅酸电池生效	3 0 0	0	300
3659Н	1	Bat_totalC apacity	UI nt 16	0	A h	R / W	电池总容量	铅酸电池生效	1 0 0	0	1000
365AH	1	AntiReflux PowerLimit	UI nt 16	3	%	R / W	防逆流限制 功率		0	0	1100
365BH	1	AntiReflux	UI	-	A	R	防逆流限制		0	0	3000

		CurrentLim it	nt 16	2		/ W	电流				0
365CH	1	AntiReflux Currentmod e	UI nt 16	0		R / W	防逆流模式	0: 不开启防逆流 1: 总功率模式 2: 相电流模式 3: 相功率模式	0	0	3
365DH	1	BmsUpdataID	UI nt 16	0	0	R / W	bms 升级 ID	0x1F:广播升级	0	0	31
365ЕН	1	BmsUpdataMo de	UI nt 16	0	0	R / W	Bms 升级方式	BMS 芯片代码	0	0	255
365FH	1	TimeExcept	UI nt 16	0	0	R / W	分时模式下 不在充放电 时段	0. 待机模式 1. 自用模式	0	0	1
3660Н	1	TimeBatdis char	UI nt 16	0	0	R / W	分时模式下 允许电池放 电到电网	0. 不允许 1. 允许	0	0	1
3661Н	1	ParallMast er	UI nt 16	0	0	R / W	并机主从机	0. 主机 1. 从机. 2. 从机。。。	0	1	10
3662Н	1	ParallNumb er	UI nt 16	0	0	R / W	并机台数	1-10 台	1	1	255
3663Н	1	Parallmode	UI nt 16	0	0	R / W	并机模式	0:不并机 1:并网并机使能 2:离网并机使能 3:离网并网并机使能	0	0	3
3664Н	1	Batcharvol	UI nt 16	- 1	0	R / W	电池浮充电 压		4 5 0	8 5 0	4500
3665Н	1	Batavercha r	UI nt 16	- 1	0	R / W	电池均充电 压		4 5 0	8 5 0	4500
3666Н	1	Batinputmo de	UI nt 16	0	0	R / W	电池输入模 式	1:独立 2:并联	1	1	2
3667Н	1	Pvinputmod e	UI nt 16	0	0	R / W	PV 输入模式	0:自动 1:独立 2:并联	0	0	2
3668Н	1	Offgridmod e	UI nt 16	0	0	R / W	离网模式使 能	0:关闭 1: 开启	1	0	1
3669Н	1	Offgridvol	UI	_	0	R	离网输出电		2	2	2400

			nt 16	1		/ W	压		$\begin{bmatrix} 2 \\ 0 \\ 0 \end{bmatrix}$	$\begin{bmatrix} 2 \\ 0 \\ 0 \end{bmatrix}$	
366АН	1	Offgridfre	UI nt 16	- 2	0	R / W	离网输出频 率		5 0 0	5 0 0	6000
366ВН	1	motorenabl e	UI nt 16	0	0	R / W	发动机使能 位				
366СН	1	MachineMod el	UI nt 16			R / W	逆变器机器 型号		9	9	96
366DH	1	PowerRated	UI nt 16	0	W	R / W	逆变器额定 功率		6 0 0 0	3 0 0 0	6000
366ЕН	1	FunctionFi r	UI nt 16			R / W	逆变器功能字	bit0:继电器检测使能位 bit1:ISO 检测使能位 bit2:对地漏电流设备自检使能位 bit3:对地漏电流检测使能位 bit4:电网电流直流分量检测使能位 bit5:电网电流直流分量控制使能位 bit6:主动孤岛检测使能位 bit7:风扇检测使能位 bit8:PV 追踪使能 bit9:输出电压直流分量检测使能 bit10:全局扫描 bit11:电网接线检测使能位 bit12:输出电压直流分量控制使能位 bit14:逆变发波检测使能位 bit15:PV 独立带载使能位	0	0	6553 5
366FН	1	FunctionSe c	UI nt 16			R / W	逆变器扩展 功能字	bit0:老化测试使能位 bit1:接地检测 bit2:预逆变使能 bit3:主 DSP 控制从继电器使能 bit4:预留 bit5:拉弧检测使能 bit6:高低温度保护使能 bit7:快速关断	0	0	6553 5
3670Н	1	MaxDciVla	UI nt 16	- 3	A	R / W	最大直流电 流分量		1 0 0 0	0	3000
3671Н	1	MaxDviVla	UI	_	V	R	最大直流电		1	0	400

			nt 16	1		/ W	压分量		0 0		
3672Н	1	MaxIsoVla	UI nt 16		k Ω	R / W	ISO 限制		1 5 0	3 0	1000
3673Н	1	MaxGfci	UI nt 16	- 3	A	R / W	最大对地漏电流		2 0 0	3 0	500
3674Н	1	GridType	UI nt 16			R / W	电网类型	0. 单相 1. 裂相 2. 三相三线 3. 三相四线	0	0	3
3675Н	1	Led_switch	UI nt 16			R / W	LED 灯板控制 灯	0 全灭 1. 亮外圈灭内圈 2. 亮内圈灭外圈 3. 全亮	0	3	3
3676Н	1	BatForcedP ower	UI nt 16	- 3	%	R / W	电池强充、 均充功率	限制电网充电池的功率	2 0 0	1 0 0	1000
3677Н	1	InverterSto p	UI nt 16			R / W	逆变器停止	1: 关机			
3678Н	1	PVStartVolt	UI nt 16	- 1	V	R / W	PV 启动电压		1 2 0 0	0	6500
3679Н	1	PVShutDownV olt	UI nt 16	- 1	V	R / W	PV 关断电压		7 0 0	0	6500
367АН	1	MpptVoltHig h	UI nt 16	- 1	V	R / W	Mppt 最大电 压		5 0 0 0	9 0 0	5000
367ВН	1	MpptVoltLow	UI nt 16	- 1	V	R / W	Mppt 最小电 压		9 0 0	9 0 0	5000
367СН	1	MPPTScanTim e	UI nt 16	0	m i n	R / W	MPPT 扫描间 隔时间		3 0	3	3000

Addre	R	Register	Ту	R	U	A	Register	Notes	默	M	Max
SS	е	name	pe	a	n	t	descrition		认	i	of
	g		of	t	i	t			值	n	setti
	i		da	i	t	r				0	ng
	s		te	0		i				f	
	t					b				s	
	е					u				е	

	r				t				t	
					е				t	
	n								i	
	a 								n	
	m e								g	
		Charge_tim	Ui		R	Charge time	Each bit comes 1 means which wire			
3604Н	1	e_enable_c	nt	0	/	enable	enable charge time, bit 0 for First	0	0	127
		ontrol	16		W	control	wire, bit 1 for Second wire…			
		Discharge_	Ui		R	Discharge	Each bit comes 1 means which wire			
3605H	1	time_enabl	nt	0	/	time enable	enable charge time, bit 0 for First	0	0	127
		e_control	16		W	control	wire, bit 1 for Second wire…			
		First_charge_	Н		R	First charge	High byte is hour, low byte is minute;			0x17
3606Н	1	start_time	E	0	/	start time	hh : mm	0	0	3B(2
			X		W					3:59
		First charge	Н			First charge	High byte is hour, low byte is minute;			0x17
		end time	Е		R	end time	hh : mm			3B(2
3607Н	1	_	X	0	/			0		3:59
					W)
		First_charge_	Н			First charge	High bytes mean the date, one enable per			
		power_time	Е		R	power time	location. For example, 0b0100 means			
3608H	1		X	0	/		Wednesday. Low bytes means power, for			
					W		example 1 means 1% of machine's			
							standard power			
		Second_charg	H		R	Second	High byte is hour, low byte is minute;			0x17
3609Н	1	e_start_time	Е	0	/	charge start	hh : mm	0	0	3B(2
			X		W	time				3:59
		Second_charg	Н			Second	High byte is hour, low byte is minute;			0x17
		e end time	Е		R	charge end	hh : mm			3B(2
360AH	1		X	0	/	time		0		3:59
					W)
		Second_charg	Н			Second	High bytes mean the date, one enable per			
		e_power_tim	Е		R	charge time	location. For example, 0b0100 means			
360BH	1	e	X	0	/	and power	Wednesday. Low bytes means power, for			
					W		example 1 means 1% of machine's			
		Thin1 -1	TT			Thindahaa	standard power			017
		Third_charge	H E		R	Third charge start time	High byte is hour, low byte is minute; hh: mm			0x17 3B(2
360CH	1	_start_time	X	0	/	Start time	1111 - 111111	0	0	3:59
			Λ		W)
		Third charge	Н			Third charge	High byte is hour, low byte is minute;			0x17
		end time	E		R	end time	hh : mm			3B(2
360DH	1		X	0	/			0		3:59
					W)

360ЕН	1	Third_charge _power_time	H E X	0	F /	Third charge time and power	High bytes mean the date, one enable per location. For example, 0b0100 means Wednesday. Low bytes means power, for example 1 means 1% of machine's standard power			
360FH	1	Fourth_charg e_start_time	H E X	0	F / V	charge start	High byte is hour, low byte is minute; hh : mm	0	0	0x17 3B(2 3:59
3610Н	1	Fourth_charg e_end_time	H E X	0	F / V	charge end	High byte is hour, low byte is minute; hh : mm	0		0x17 3B(2 3:59
3611Н	1	Fourth_charg e_power_tim e	H E X	0	F V	and power	High bytes mean the date, one enable per location. For example, 0b0100 means Wednesday. Low bytes means power, for example 1 means 1% of machine's standard power			
3612Н	1	Fifth_charge_ start_time	H E X	0	F / V	start time	High byte is hour, low byte is minute; hh: mm	0	0	0x17 3B(2 3:59
3613Н	1	Fifth_charge_ end_time	H E X	0	F /	end time	High byte is hour, low byte is minute; hh : mm	0		0x17 3B(2 3:59
3614Н	1	Fifth_charge_ power_time	H E X	0	F V	time and power	High bytes mean the date, one enable per location. For example, 0b0100 means Wednesday. Low bytes means power, for example 1 means 1% of machine's standard power			
3615Н	1	Sixth_charge _start_time	H E X	0	F V	start time	High byte is hour, low byte is minute; hh: mm	0	0	0x17 3B(2 3:59
3616Н	1	Sixth_charge _end_time	H E X	0	F V	end time	High byte is hour, low byte is minute; hh : mm	0		0x17 3B(2 3:59
3617Н	1	Sixth_charge _power_time	H E X	0	F V	power	High bytes mean the date, one enable per location. For example, 0b0100 means Wednesday. Low bytes means power, for example 1 means 1% of machine's standard power			
3618Н	1	Seventh_char ge_start_time	H E	0	F /	Seventh charge start	High byte is hour, low byte is minute; hh: mm	0	0	0x17 3B(2

			X		W	time				3:59
3619Н	1	Seventh_char ge_end_time	H E X	0	R / W	Seventh charge end time	High byte is hour, low byte is minute; hh : mm	0		0x17 3B(2 3:59
361АН	1	Seventh_char ge_power_ti me	H E X	0	R / W	Seventh charge time and power	High bytes mean the date, one enable per location. For example, 0b0100 means Wednesday. Low bytes means power, for example 1 means 1% of machine's standard power			
361ВН	1	First_dischar ge_start_time	H E X	0	R / W	First discharge start time	High byte is hour, low byte is minute; hh : mm	0	0	0x17 3B(2 3:59
361CH	1	First_dischar ge_end_time	H E X	0	R / W	First discharge end time	High byte is hour, low byte is minute; hh: mm	0		0x17 3B(2 3:59
361DH	1	First_dischar ge_power_ti me	H E X	0	R / W	First discharge time and power	High bytes mean the date, one enable per location. For example, 0b0100 means Wednesday. Low bytes means power, for example 1 means 1% of machine's standard power			
361ЕН	1	Second_disch arge_start_ti me	H E X	0	R / W	Second discharge start time	High byte is hour, low byte is minute; hh : mm	0	0	0x17 3B(2 3:59
361FH	1	Second_disch arge_end_tim e	H E X	0	R / W	Second discharge end time	High byte is hour, low byte is minute; hh : mm	0		0x17 3B(2 3:59
3620Н	1	Second_disch arge_power_t ime	H E X	0	R / W	Second discharge time and power	High bytes mean the date, one enable per location. For example, 0b0100 means Wednesday. Low bytes means power, for example 1 means 1% of machine's standard power			
3621Н	1	Third_dischar ge_start_time	H E X	0	R / W	Third discharge start time	High byte is hour, low byte is minute; hh : mm	0	0	0x17 3B(2 3:59)
3622Н	1	Third_dischar ge_end_time	H E X	0	R / W	Third discharge end time	High byte is hour, low byte is minute; hh : mm	0		0x17 3B(2 3:59
3623Н	1	Third_dischar	Н	0	R	Third	High bytes mean the date, one enable per			

			_		,					
		ge_power_ti me	E X		W	discharge time and	location. For example, 0b0100 means Wednesday. Low bytes means power, for			
		inc	Λ		"	power	example 1 means 1% of machine's			
						p = • I	standard power			
		Fourth_disch	Н		ъ	Fourth	High byte is hour, low byte is minute;			0x17
0.00411	1	arge_start_ti	Е		R	discharge	hh : mm			3B(2
3624H	1	me	X	0	W	start time		0	0	3:59
					VV)
		Fourth_disch	Н		R	Fourth	High byte is hour, low byte is minute;			0x17
3625H	1	arge_end_tim	Е	0	/	discharge	hh : mm	0		3B(2
00-011		e	X	_	W	end time				3:59
		D d t 1				D1)
		Fourth_disch	Н		D	Fourth	High bytes mean the date, one enable per			
3626Н	1	arge_power_t ime	E X	0	R	discharge time and	location. For example, 0b0100 means Wednesday. Low bytes means power, for			
302011	1	IIIIC	Λ		/ W	power	example 1 means 1% of machine's			
					"	powci	standard power			
		Fifth dischar	Н			Fifth	High byte is hour, low byte is minute;			0x17
		ge start time	Е		R	discharge	hh : mm			3B(2
3627Н	1	6	X	0	/	start time		0	0	3:59
					W)
		Fifth_dischar	Н		R	Fifth	High byte is hour, low byte is minute;			0x17
3628H	1	ge_end_time	Е	0	,	discharge	hh : mm	0		3B(2
302011	1		X		W	end time				3:59
)
		Fifth_dischar	H			Fifth	High bytes mean the date, one enable per			
20011	1	ge_power_ti	E		R	discharge	location. For example, 0b0100 means			
3629Н	1	me	X	0	/ W	time and	Wednesday. Low bytes means power, for			
					W	power	example 1 means 1% of machine's standard power			
		Sixth dischar	Н			Sixth	High byte is hour, low byte is minute;			0x17
		ge start time	E		R	discharge	hh: mm			3B(2
362AH	1	0	X	0	/	start time		0	0	3:59
					W)
		Sixth_dischar	Н		R	Sixth	High byte is hour, low byte is minute;			0x17
362BH	1	ge_end_time	Е	0	/	discharge	hh : mm	0		3B (2
COLDIT	•		X		W	end time				3:59
)
		Sixth_dischar	Н		Б	Sixth	High bytes mean the date, one enable per			
260011	1	ge_power_ti	E		R	discharge	location. For example, 0b0100 means			
362CH	1	me	X	0	W	time and	Wednesday. Low bytes means power, for			
					W	power	example 1 means 1% of machine's standard power			
		Seventh disc	Н		R	Seventh	High byte is hour, low byte is minute;			0x17
362DH	1	harge_start_ti	E	0	/	discharge	hh : mm	0	0	3B(2
		me	X		W	start time				3:59

)
362ЕН	1	Seventh_disc harge_end_ti me	H E X	0		R / W	Seventh discharge end time	High byte is hour, low byte is minute; hh : mm	0		0x17 3B(2 3:59
362FН	1	Seventh_disc harge_power _time	H E X	0		R / W	Seventh discharge time and power	High bytes mean the date, one enable per location. For example, 0b0100 means Wednesday. Low bytes means power, for example 1 means 1% of machine's standard power			
3630Н	1	Meter_enable	Ui nt 16	0		R / W	Meter wiring mode	 Close meter enable One single phase meter One three phase three wires meter One three phase four wires meter 	0	0	3
3631Н	1	Meter_addr	Ui nt 16	0		R / W	Communicati on address of meter	1 - 255	1	1	255
3632Н	1	Buzzer_on-of f	Ui nt 16	0		R / W	Buzzer on-off enable	0: enable, 1: forbid	1	0	1
3633Н	1	RS485_Addr	Ui nt 16			R / W	RS485 Communicati on address	1 [~] 127	1	1	127
3634Н	1	RS485_BaudR ate	Ui nt 16			R / W	RS485Commun ication Baud rate	0 means 115200,1 means 57600,2 means 38400,3 means 19200,4 means 9600,5 means 4800,6 means 2400,7 means 1200	0	0	7
3635H	1	PreventReve rseFlow_ena ble	Ui nt 16			R / W	Prevent reverse flow master slave mode	O means close, no enable 1 means open, enable, master mode, read meter data 2 means open, enable, slave machine mode, the external communication module writes data	1	0	2
3636Н	1	Passive_cha rge_enable	Ui nt 16			R / W	Passive charge and discharge enable	0: Standby 1: Discharge 2: Charge	0	0	2
3637Н	1	Passive_Gri dChargePowe r	Ui nt 16	- 3	%	R / W	Passive grid charge power	Passive mode in effect	1 1 0 0	0	1100
3638Н	1	Passive_Gri dDisChargeP ower	Ui nt 16	- 3	%	R / W	Passive grid discharge power	Passive mode in effect	1 1 0 0	0	1100
3639Н	1	Passive_Bat ChargePower	Ui nt	3	%	R /	Passive battery	Passive mode in effect	1 1	0	1100

			16			W	charge power		0 0		
363AH	1	Passive_Bat DisChargePo wer	Ui nt 16	- 3	%	R / W	Passive battery discharge power	Passive mode in effect	1 1 0 0	0	1100
363BH	1	Battery_proto col	Ui nt 16	0		R / W	Battery protocol (Battery brand)	0: Battery not used 2: Lead-acid 20:dyness (DYNESS-H) Da Qing 21:pylon (SC0500) Pai Neng 22 B2_can	0	0	22
3642Н	1	ReturnFHyst eresis	UI nt 16	2	H z	R / W	Return frequency hysteresis	Australia FCAS	1 5	0	15
3643Н	1	BatAutoWak eEn	UI nt 16			R / W	Battery auto-wake -up function		0	0	1
3644Н	1	BatOnGridD isDepth	UI nt 16	0	%	R / W	Battery on grid discharge Depth		2 0	5	100
3645Н	1	BatOffGrid DisDepth	UI nt 16	0	%	R / W	Battery off grid discharge depth		1 0	5	100
3646Н	1	BatcharDep th	UI nt 16	0	%	R / W	Battery capacity charge upper limit		1 0 0	2 0	100
3647Н	1	AppMode	UI nt 16			R / W	Inverter app mode	0x00 Self-use_mode 0x01 time_mode 0x02 backup_mode 0x03 passive_mode 0x0E old mode	1 4	0	14
364DH	1	BatChargeP ower	UI nt 16	3	%	R / W	Battery charge power limit		1 1 0 0	0	1100
364ЕН	1	BatDischar gePower	UI nt 16	- 3	%	R / W	Battery discharge power limit		1 1 0 0	0	1100
364FH	1	GridCharge Power	UI nt 16	- 3	%	R / W	Grid max charge power		1 1 0	0	1100

									0		
3650Н	1	GridDischa rgePower	UI nt 16	- 3	%	R / W	Grid max discharge power		1 1 0 0	0	1100
3651Н	1	BatSocLimi tkeep	UI nt 16		%	R / W	Battery SOC reserved back up value	Effective under backup mode	1 0 0	2 0	100
3652Н	1	Bat_OffGri dDisCutOff Volt	UI nt 16		%	R / W	Battery off grid discharge cut off voltage	Lead-acid battery work	8 5 0	8 5 0	4500
3653Н	1	Bat_Charge voltage	UI nt 16	- 1	V	R / W	Battery charge voltage(ch arge cut off)	Lead-acid battery work	4 5 0 0	8 5 0	4500
3654Н	1	Bat_OnGrid DisCutOffV olt	UI nt 16	1	V	R / W	Battery on grid discharge cut off voltage	Lead-acid battery work	8 5 0	8 5 0	4500
3655Н	1	BatProtHigh	UI nt 16	- 1	V	R / W	Battery high voltage protection	Lead-acid battery work	4 5 0 0	8 5 0	4500
3656Н	1	BatProtLow	UI nt 16	- 1	V	R / W	Battery low voltage warning	Lead-acid battery work	8 5 0	8 5 0	4500
3657Н	1	BatDisCurr Limit	UI nt 16	- 1	A	R / W	Battery discharge current limit	Lead-acid battery work	3 0 0	0	300
3658H	1	BatChaCurr Limit	UI nt 16	1	A	R / W	Battery charge current limit	Lead-acid battery work	3 0 0	0	300
3659Н	1	Bat_totalC apacity	UI nt 16	0	A h	R / W	Battery total capacity	Lead-acid battery work	1 0 0	0	1000
365АН	1	AntiReflux PowerLimit	UI nt 16	3	%	R / W	Anti-reflu x power limit		0	0	1100
365BH	1	AntiReflux	UI	_	A	R	Anti-reflu		0	0	3000

		CurrentLim it	nt 16	2		/ W	x current limit				0
365CH	1	AntiReflux Currentmod e	UI nt 16	0		R / W	Anti-reflu x current mode	0: Not open anti-reflux1: Total power mode2: Phase current mode3: Phase power mode	0	0	3
365DH	1	BmsUpdataID	UI nt 16	0	0	R / W	Bms update	Ox1F: Broadcasting upgrade	0	0	31
365ЕН	1	BmsUpdataMo de	UI nt 16	0	0	R / W	Bms update mode	BMS chip code	0	0	255
365FH	1	TimeExcept	UI nt 16	0	0	R / W	The charging and dischargin g period is not available in time-sharing mode	O.Standby mode 1.Self use mode	0	0	1
3660Н	1	TimeBatdis char	UI nt 16	0	0	R / W	The charging and dischargin g period is available in time-shari ng mode	O. Not allow 1. Allow	0	0	1
3661Н	1	ParallMast er	UI nt 16	0	0	R / W	Parallel master and slave machine	O. Master machine 1. slave machine. 2. slave machine	0	1	10
3662Н	1	ParallNumb er	UI nt 16	0	0	R / W	Parallel number	1-10 set	1	1	255
3663Н	1	Parallmode	UI nt 16	0	0	R / W	Parallel mode	0:Not parallel 1:On grid parallel enable 2:Off grid parallel enable 3:Off grid/On grid parallel enable	0	0	3
3664Н	1	Batcharvol	UI nt 16	- 1	0	R / W	Battery discharge voltage		4 5 0 0	8 5 0	4500

3665Н	1	Batavercha r	UI nt 16	- 1	0	R / W	Battery average charge voltage		4 5 0 0	8 5 0	4500
3666Н	1	Batinputmo de	UI nt 16	0	0	R / W	Battery input mode	1:independent 2:Parallel	1	1	2
3667Н	1	Pvinputmod e	UI nt 16	0	0	R / W	PV input mode	0:Auto 1:Independent 2:Parallel	0	0	2
3668Н	1	Offgridmod e	UI nt 16	0	0	R / W	Off grid mode enable	0:off 1: on	1	0	1
3669Н	1	Offgridvol	UI nt 16	- 1	0	R / W	Off grid discharge voltage		2 2 0 0	2 2 0 0	2400
366AH	1	Offgridfre	UI nt 16	- 2	0	R / W	Off grid discharge frequency		5 0 0	5 0 0	6000
366BH	1	motorenabl e	UI nt 16	0	0	R / W	Motor enable bit				
366СН	1	MachineMod el	UI nt 16			R / W	Inverter machine model		9	9	96
366DH	1	PowerRated	UI nt 16	0	W	R / W	Inverter power rated		6 0 0	3 0 0 0	6000
366ЕН	1	FunctionFi r	UI nt 16			R / W	Inverter function	bit0: The relay detection enable bit bit1: Enable bit of ISO detection bit2: Enable bit of the floor drain current device self-test bit3: Enable bit of the floor drain current detection bit bit4: Enable bit of the DC component detection of the grid current bit5: Enable bit of the DC component control of the grid current bit6: Enable bit of the active island detection bit7: Enable bit of the fan detection	0	0	6553 5

								bit8: PV tracing enable bit9: DC component detection of output voltage enable bit10: Global scan bit11: Enable bit of power grid wiring detection bit12: Enable bit of DC component control of output voltage bit13: Enable bit of abnormal access detection at the output end bit14: Enable bit of inverter wave detection bit15:PV independent on-load enable bit			
366FН	1	FunctionSe c	UI nt 16			R / W	Inverter expansion function word	bit0: enable bit of the aging test bit1: Ground detection bit2: The pre-inverting function enable bit3: The master DSP control slave relay enable bit4: Reserve bit5: Arc pull detection enable bit6: High and low temperature protection enable bit7: Quick shutdown	0	0	6553 5
3670Н	1	MaxDciVla	UI nt 16	3	A	R / W	Maximum DC current component		1 0 0 0	0	3000
3671Н	1	MaxDviVla	UI nt 16	- 1	V	R / W	Maximum DC voltage component		1 0 0	0	400
3672Н	1	MaxIsoVla	UI nt 16		k Ω	R / W	ISO limit		1 5 0	3 0	1000
3673Н	1	MaxGfci	UI nt 16	3	A	R / W	Maximum current to floor drain		2 0 0	3 0	500
3674Н	1	GridType	UI nt 16			R / W	Grid type	 Single phase Split phase Three phase three wires Three phase four wires 	0	0	3
3675Н	1	Led_switch	UI nt 16			R / W	LED broad control broad	0 All lighting off 1.Outer ring lighting on inner ring lighting off 2. Inner ring lighting on outer ring lighting off 3.All lighting on	0	3	3

3676Н	1	BatForcedP ower	UI nt 16	3	%	R / W	Battery forced charge and average charge power	Limit battery charge on grid	2 0 0	1 0 0	1000
3677Н	1	InverterSto p	UI nt 16			R / W	Inverter stop running	1: power off			
3678Н	1	PVStartVolt	UI nt 16	1	V	R / W	PV start voltage		1 2 0 0	0	6500
3679Н	1	PVShutDownV olt	UI nt 16	- 1	V	R / W	PV cut-off voltage		7 0 0	0	6500
367АН	1	MpptVoltHig h	UI nt 16	- 1	V	R / W	Mppt Max voltage		5 0 0 0	9 0 0	5000
367ВН	1	MpptVoltLow	UI nt 16	- 1	V	R / W	Mppt Min voltage		9 0 0	9 0 0	5000
367СН	1	MPPTScanTim e	UI nt 16	0	m i n	R / W	MPPT scan invertal time		3 0	3	3000

4.6Error Code 定义 Error Code Definition

位号	显示板故障代码定义	显示板故障代码定义		位号	主机故障代码定义	主机故障代码定义		位号	主机故障代码定义	主机故障代码定义	
0	Lost Com.H<->M Err	主从机内部通信故障	H2高压	0	Master Bus Voltage High	主机母线软件过压	H2高压	0	Master Relay Error	主机继电器故障	H2高压
1	Meter Lost Com Warn	电表通讯丢失警告	H2高压	1	Master Bus Voltage Low	主机母线软件欠压		1	Master EEPROM Error	主机存储器 (EEPROM) 故障	H2高压
2	HMI Eeprom Err	存储器故障	H2高压	2	Master Grid Phase Error	主机电网相位错误	H2高压	2	Master Temperature High Error	主机温度高	H2高压
3	HMI RTC Err	RTC故障	H2高压	3	Master PV Voltage High Error	主机PV过压	H2高压	3	Master Temperature Low Error	主机温度低	H2高压
4	BMS Device Err	BMS设备故障	H2高压	4	Master Islanding Error	主机孤岛错误		4	aster Lost Communication M<-3	主机内部通信故障	
5	BMS Lost.Conn Warn	BMS通讯丢失警告	H2高压	5	Reserved(bit 6)	Reserved(bit 6)		5	Master GFCI Device Error	机接地故障漏电流检测设备故障	H2高压
6	Reserved(bit 71)	Reserved(bit 71)		6	Master PVInput Error	主机PV输入错误	H2高压	6	Master DCI Device Error	主机直流分量检测设备故障	
7	Reserved(bit 72)	Reserved(bit 72)		7	munication between DSP and Po	主机与电表通讯丢失		7	Master Current Sensor Error	主机电流检测设备故障	H2高压
8	Reserved(bit 73)	Reserved(bit 73)		8	Master HW Bus Voltage High	主机母线硬件过压		8	Master Phase 1 Voltage High	主机L1相电网过压	H2高压
9	Reserved(bit 74)	Reserved(bit 74)		9	Master HW PV Current High	主机PV硬件过流	H2高压	9	Master Phase1 Voltage Low	主机L1相电网欠压	H2高压
10	Reserved(bit 75)	Reserved(bit 75)		10	Reserved(bit 11)	Reserved(bit 11)		10	Master Phase 2 Voltage High	主机L2相电网过压	H2高压
11	RVoltHighFault	R相电网过压		11	Master HW Inv Current High	主机逆变硬件过流	H2高压	11	Master Phase2 Voltage Low	主机L2相电网欠压	H2高压
12	RVoltLowFault	R相电网欠压		12	Reserved(bit 13)	Reserved(bit 13)		12	Master Phase3 Voltage High	主机L3相电网过压	H2高压
13	SVoltHighFault	S相电网过压		13	Reserved(bit 14)	Reserved(bit 14)		13	Master Phase3 Voltage Low	主机L3相电网欠压	H2高压
14	SVoltLowFault	S相电网欠压		14	Master Grid NE Voltage Error	主机N对地电压故障	H2高压	14	Master Voltage 10Min High	主机电网电压10分钟平均值过压	H2高压
15	TVoltHighFault	T相电网过压		15	Master DRM0 Error	DRM0 故障	H2高压	15	Master OffGrid Voltage Low	主机离网输出欠压	H2高压
16	SVoltLowFault	S相电网欠压		16	Master Fan1 Error	主机风扇1故障	H2高压	16	Reserved(bit 49)	Reserved(bit 49)	
17	FreqHighFault	电网过频		17	Master Fan2 Error	主机风扇2故障		17	Master Grid Frequency High	主机电网过频	H2高压
18	FreqLowFault	电网欠频		18	Master Fan3 Error	主机风扇3故障		18	Master Grid Frequency Low	主机电网欠频	H2高压
19	Reserved(bit 84)	Reserved(bit 84)		19	Master Fan4 Error	主机风扇4故障		19	Reserved(bit 52)	Reserved(bit 52)	
20	Reserved(bit 85)	Reserved(bit 85)		20	Master Arc Error	主机电弧故障		20	Master Phase1 DCV Error	主机L1相电压直流分量高	H2高压
21	Reserved(bit 86)	Reserved(bit 86)		21	Master SW PV Current High	主机软件PV过流		21	Master Phase2 DCV Error	主机L2相电压直流分量高	H2高压
22	Reserved(bit 87)	Reserved(bit 87)		22	Master Battery Voltage High	主机电池过压	H2高压	22	Master Phase3 DCV Error	主机L3相电压直流分量高	H2高压
23	NoGridFault	电网丢失		23	Master Battery Current High	主机电池过流	H2高压	23	Master No Grid Error	主机电网丢失	H2高压
24	PVInputModeFault	PV模式错误		24	aster Battery Charge Voltage Hi	主机电池充电电压高	H2高压	24	Reserved(bit 57)	Reserved(bit 57)	
25	HWPVCurrHighFault	PV硬件过流		25	Master Battery OverLoad	主机电池过载	H2高压	25	Reserved(bit 58)	Reserved(bit 58)	
26	PVVolHighFault	从机PV过压		26	aster Battery SoftConnet TimeO	主机电池软连接超时	H2高压	26	Master GFCI Error	主机对地漏电流故障	H2高压
27	HWBusVoltHighFault	BUS硬件过压		27	Master Output OverLoad	主机输出过载	H2高压	27	Master Phase1 DCI Error	主机L1相直流分量高	H2高压
28	Reserved(bit 93)	Reserved(bit 93)		28	Master Battery Open Circuit Erro	主机电池开路	H2高压	28	Master Phase 2 DCI Error	主机L2相直流分量高	H2高压
29	Reserved(bit 94)	Reserved(bit 94)		29	ster Battery Discharge Voltage L	主机电池放电电压低	H2高压	29	Master Phase3 DCI Error	主机L3相直流分量高	H2高压
30	Reserved(bit 95)	Reserved(bit 95)		30	Authority expires	授权到期		30	Master ISO Error	主机绝缘故障	H2高压
31	Reserved(bit 96)	Reserved(bit 96)		31	Lost Communication D<->C	内部显示板和主控制器通信	H2高压	31	Master Bus Voltage Balance Erro	主机母线电压不平衡	H2高压

Bit numb er	Fault code definition	Display board fault code definition		Bit numb er	Master Fault code definition	Master Fault code definition		Bit numb er	Master Fault code definition	Master Fault code definition	
0	Lost Com.H<->M	Lost communicati on between master and slave error	H2 high voltag e	0	Master Bus Voltage High	Master Bus Voltage High	H2 high voltag e	0	Master Relay Error	Master Relay Error	H2 high voltag e
1	Meter Lost Com Warn	Meter lost communicati on warning	H2 high voltag e	1	Master Bus Voltage Low	Master Bus Voltage Low		1	Master EEPROM Error	Master (EEPROM) error	H2 high voltag e
2	HMI Eeprom Err	HIMI Eeprom error	H2 high voltag e	2	Master Grid Phase Error	Master Grid Phase Error	H2 high voltag e	2	Master Temperature High Error	Master Temperatur e High Error	H2 high voltag e
3	HMI RTC Err	RTC error	H2 high voltag	3	Master PV Voltage High Error	Master PV Voltage High Error	H2 high voltag	3	Master Temperature Low Error	Master Temperatur e Low Error	H2 high voltag

			е				е				е
4	BMS Device Err	BMS device error	H2 high voltag es	4	Master Islanding Error	Master Islanding Error		4	Master Lost Communicati on M<->S	The internal communicati on of the host is faulty	
5	BMS Lost.Conn Warn	BMS lost communicati on warning	H2 high voltag e	5	Reserved(bit	Reserved(bit		5	Master GFCI Device Error	Master GFCI Device Error	H2 high voltag e
6	Reserved(bit 71)	Reserved (bit 71)		6	Master PVInput Error	Master PVInput Error	H2 high voltag e	6	Master DCI Device Error	Master DCI Device Error	
7	Reserved (bit 72)	Reserved (bit 72)		7	Communicati on between DSP and PC lost	Communicati on between DSP and PC lost		7	Master Current Sensor Error	Master Current Sensor Error	H2 high voltag es
8	Reserved(bit 73)	Reserved (bit 73)		8	Master HW Bus Voltage High	Master Hardware Bus Voltage High		8	Master Phase 1 Voltage High	Master Phase 1 Voltage High	H2 high voltag e
9	Reserved(bit 74)	Reserved (bit 74)		9	Master HW PV Current High	Master hardware PV current high	H2 high voltag e	9	Master Phase 1 Voltage Low	Master Phase 1 Voltage Low	H2 high voltag e
10	Reserved(bit 75)	Reserved(bi		10	Reserved(bit	Reserved (bit 11)		10	Master Phase2 Voltage High	Master Phase2 Voltage High	H2 high voltag e
11	RVoltHighFault	R phase voltage high fault		11	Master HW Inv Current High	Master hardware inverter current high	H2 high voltag e	11	Master Phase2 Voltage Low	Master Phase2 Voltage Low	H2 high voltag e
12	RVoltLowFault	R phase voltage low fault		12	Reserved(bit	Reserved (bit 13)		12	Master Phase3 Voltage High	Master Phase3 Voltage High	H2 high voltag e
13	SVoltHighFault	S phase voltage high fault		13	Reserved (bit 14)	Reserved (bit 14)		13	Master Phase3 Voltage Low	Master Phase3 Voltage Low	H2 high voltag e
14	SVoltLowFault	S phase voltage low fault		14	Master Grid NE Voltage Error	Master grid NE voltage error	H2 high voltag e	14	Master Voltage 10Min High	Voltage of host power network is under voltage	H2 high voltag e

									average in	
15	TVoltHighFault	T phase voltage high fault	15	Master DRM0 Error	Master DRM0 error	H2 high voltag e	15	Master OffGrid Voltage Low	Master OffGrid Voltage Low	H2 high voltag e
16	SVoltLowFault	S phase voltage low fault	16	Master Fan1 Error	Master Fan1 Error	H2 high voltag e	16	Reserved(bit	Reserved(bi	
17	FreqHighFault	Frequency high fault	17	Master Fan2 Error	Master Fan2 Error		17	Master Grid Frequency High	Mater Grid Frequency high	H2 high voltag e
18	FreqLowFault	Frequency low fault	18	Master Fan3 Error	Master Fan3 Error		18	Master Grid Frequency Low	Master Grid Frequency Low	H2 high voltag e
19	Reserved(bit 84)	Reserved (bit 84)	19	Master Fan4 Error	Master Fan4 Error		19	Reserved(bit 52)	Reserved(bi	
20	Reserved(bit 85)	Reserved (bit 85)	20	Master Arc Error	Master electric error		20	Master Phase1 DCV Error	Master phase L1 direct current voltage high error	H2 high voltag e
21	Reserved(bit 86)	Reserved (bit 86)	21	Master SW PV Current High	Master software PV current high		21	Master Phase2 DCV Error	Master phase L2 direct current voltage high error	H2 high voltag e
22	Reserved(bit 87)	Reserved (bit 87)	22	Master Battery Voltage High	Master battery voltage high	H2 high voltag e	22	Master Phase3 DCV Error	Master phase L3 direct current voltage high error	H2 high voltag e
23	NoGridFault	No grid fault	23	Master Battery Current High	Master Battery Current High	H2 high voltag e	23	Master No Grid Error	Master No Grid Error	H2 high voltag e
24	PVInputModeFau It	PV input mode fault	24	Master Battery Charge Voltage High	Master Battery Charge Voltage High	H2 high voltag e	24	Reserved(bit 57)	Reserved(bi	

25	HWPVCurrHighF ault	Hardware PV current high fault	25	Master Battery OverLoad	Master Battery OverLoad	H2 high voltag e	25	Reserved(bit 58)	Reserved(bi	
26	PVVoIHighFault	PVvoltage high fault	26	Master Battery SoftConnet TimeOut	Master Battery SoftConnet TimeOut	H2 high voltag e	26	Master GFCI Error	Master Ground Fault Circuit Interrupter error	H2 high voltag e
27	HWBusVoltHighF ault	Hardware BUS voltage high fault	27	Master Output OverLoad	Master Output OverLoad	H2 high voltag e	27	Master Phase1 DCI Error	Master Phase1 DCI Error	H2 high voltag e
28	Reserved(bit 93)	Reserved(bi	28	Master Battery Open Circuit Error	Master Battery Open Circuit Error	H2 high voltag e	28	Master Phase2 DCI Error	Master Phase2 DCI Error	H2 high voltag e
29	Reserved(bit 94)	Reserved(bi	29	Master Battery Discharge Voltage Low	Master Battery Discharge Voltage Low	H2 high voltag e	29	Master Phase3 DCI Error	Master Phase3 DCI Error	H2 high voltag e
30	Reserved(bit 95)	Reserved(bi	30	Authority expires	Authority expires		30	Master ISO Error	Master ISO Error	H2 high voltag e
31	Reserved(bit 96)	Reserved(bi	31	Lost Communicati on D<->C		H2 high voltag e	31	Master Bus Voltage Balance Error	Master Bus Voltage Balance Error	H2 high voltag e

4.7 工厂参数 The factory parameter

地址	SIZE (Word)	寄存器名	数据	倍	单	属	寄存器描述	Ø ⅓ }
			类型	率	位	性		备注
8015H	1	CleanHistoryRecord	UInt16			W	清除历史故	1: 清除历史故障 2. 清除当前故障
							障	
801AH	1	InvertReset	UInt16			W	复位重启	1:复位
801BH	1	CleanPower	UInt16			W	清除发电量	1: 清除发电量
801CH	1	Cleandata	UInt16			W	清除数据恢	1: 清除数据
							复出厂设置	1: 有形态数1店
								格式 yyyyMMddHHmmsszz
								уууу:年份
								MM: 月份
								dd:日期
8020H	4	T: ma	HEX			W	 机器时间	HH: 时 (24 小时制)
8020H	4	Time	ПЕХ	0		W	机奋时间	mm:分
								ss:秒
								zz:保留位
								2015-1-2 10:11:12 对应的数据为
								07DF 01 02 0A 0B 0C 00

addres	SIZE(Wor	Register	Data	rat	unit	atrrib	Register	notes
S	d)	name	type	io		ute	description	notes
8015H	1	CleanHistory	UInt16			W	Clearing	1: Clear the
		Record					Historical Faults	historical fault. 2.
								Clear the current
								fault
801AH	1	InvertReset	UInt16			W	Reset to restart	1: reset
801BH	1	CleanPower	UInt16			W	Cleared energy	1: Cleared energy
							yield	yield
801CH	1	Cleandata	UInt16			W	Clear data	
							restoration	1: Clear data
							factory Settings	
							Machine time	format
								yyyyMMddHHmmsszz
								yyyy:year
								MM: month
								dd:date
8020H	4	Time	HEX	0		W		HH: hour (24-hour)
0020П	4	11me	ПЕЛ	0		W		mm: minute
								ss: second
								zz: reserve bit
								2015-1-2 10:11:12
								corresponding to
								07DF 01 02 0A 0B 0C 00