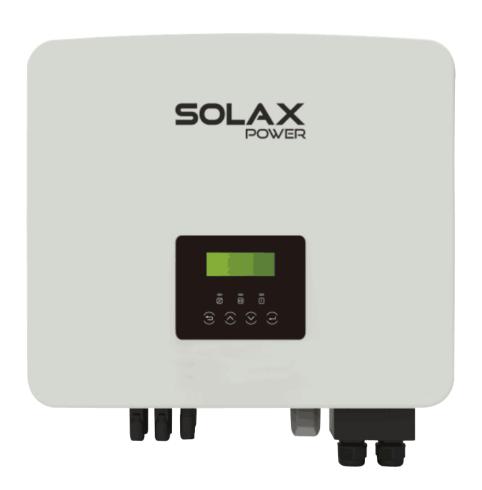


# Energy Storage Inverter Modbus TCP&RTU Communication protocols

V3.21





# History list:

Date	Name	detail	Versio n	other
2020-6-16	GaoRui	<ul><li>1.Delete RF related data;</li><li>2.Modify work mode related data;</li><li>3.The communication format is changed from the original Modbus TCP to Modbus RTU.</li></ul>	V3.01	Completed according to the ModBus TCP X1&X3 G3 V3.19 Protacal
2020-8-14	GaoRui	1.Modify the corresponding meaning of language .(0:English1:German2:French3:Polish4:S panish 5: Portuguese) 2.Modify the Feedin power description (0x0046 register). 3.Write single register and Read holding register add EnableMPPT. 4.Modify read holding register 0x00BA, Inverter power type description,delete the 7kW type.	V3.02	
2020-8-28	GaoRui	1.Add safety type description.( 0x03Read Holding Register, 0x001D Safety.)	V3.03	
2020-10-7	WangJia nXing	Add Vpp Control function registers	V3.04	
2020-10-9	GaoRui	1.Modify the Vpv_High_Stop, Vpv_Low_Stop parameter to Adjust_Battery_U,Adjust_Battery_I.  2.Delet the Vpv_Start parameter,Write Single Register 0x0001 variable Reserve.  3.Delet these ModbusPowerControl, Modbus ActivePower, ModbusReactivePower, PowerControl_timeout parameters.Write Sigle Register 0x0051、0x0052、0x0053、0x009F, And ModbusPowerControl 、 PowerControl_timeout Read Holding Register 0x00A6 、 0x010B variable reserve。	V3.05	
2020-11-11	GaoRui	1.Add SelfUse_NightCharge_Enable, Feedin_NightCharge_UpperSoC,BackUp_NightCh arge_UpperSoC; .( 0x03Read Holding Register, 0x0092(Hi),0x0094(Lo),0x0095(Lo).) 2.Add Safety type description: 28 RD1699_Island. 3. Add ReconnectionTime Read Holding Register 0x0017, Write Single Register 0x0001. 4.Modify 0x5F Reset_Manger_EE parameter 's decription (0x06: Write Single Register). 4.Add MateBoxEnable parameter.	V 3.06	



			I	
		(1) Write Single Register 0x000A.		
		(2) Read Holding Register 0x001E.		
		1.Delete PowerManagerConfigData .		
		PowerManagerEnable parameters.		
		2.Add HardwareVersionDSP parameter, which at		
		0x007D Holding Register.		
0000 10 00	0 5	3.Modify absorpt_voltage parameter position,	\ (0.07	
2020-12-22	GaoRui	which from 0x00A7 to 0x0092 at Holding Register.	V3.07	
		4.Delete wDcvFaultVal parameter.		
		5. Modify the Eps description to Off-grid in the		
		full text.		
		6.Add MissedCTFault description at Table 2-4		
		Inverter error code(X1).		
		1.Add Registration Code(for external module)		
		parameter, which from 0x00AA to 0x00AE at Read		
2021-01-29	GaoRui	Holding Register.	V3.08	
		2.Modify 0x0116 register LVRT_Function		
		parameter's description, which at Holding		
		Register.		
	wangjia nxing	1. Add Adjust_CT parameters, which from		
2021-03-02		0x0034 to 0x0037 at Write Single Register.	V3.09	
		2. Modify some BMS warning Spelling mistake		
		Add "Notice" explain about use "Write Single		
		Registers"and"WriteMultiple Registers"attentions		
2021-06-21	wangjia	Add Write single registers 0x0029~0x002E about	V3.10	
	nxing	CalibGainInvVolt and CalibEPSDcvAdj		
		Add Read Input registers 0x009C~0x009E about		
		InvVoltR、InvVoltS、InvVoltT		
		Add Write single registers		
		0x00A4 : DirectionMeterCT1		
2021-08-19	wangjia	0x00A5 : DirectionMeter2	V3.11	
	nxing	Add Read Input registers		
		0x010B : DirectionMeterCT1		
		0x010C : DirectionMeter2		
		Add safety types(AS 4777_2020_B \ AS		
		4777_2020_C、User-Defined、EN50549_Romania、		
		CEI016)		
	wangjia	Add Read Input Registers		
2021-9-3	nxing	0x00BA Battery_Tem_High	V3.12	
	17/11/9	0x00BB Battery_Tem_Low		
		0x00BC Cell_Voltage_High		
		0x00BD Cell_Voltage_Low		
		Add Write single register		



		0.0046 A .: M. 1.66 AFF	1	
		0x0046 AgeingMode(for ATE use)		
		Add Read Holding Registers		
		0x11C bPVConnectionMode(X1)		
		4.11.W. G. 1. D. 1.		
0004 0 00		Add Write Single Registers		
	Tangyan	0x0051 PVConnectipon(X1)		
2021-9-28	chong	0x00AE PuFuncEnable	V3.13	
		0x00AF PuFunc_ResponseV1		
		0x00B0 PuFunc_ResponseV2		
		0x00B1 PuFunc_ResponseV3		
		0x00B2 PuFunc_ResponseV4		
		0x00B3 PuFunc_3Tau		
		Add Read Holding Registers		
		0x00A8 wBatteryDischargeBackupVoltage		
2021-11-2	wangjia	Add Write Single Registers	V3.14	
	nxing	0x0026 wBatteryDischargeBackupVoltage		
		Add Upgrade W/R Register and Example		
		describe		
		Add Read Holding Registers		
		0x011C ShutDown		
		0x011D MicroGrid		
		0x011E SelfuseModeBackupEn		
		0x011F bSelfUse_BackupSoc		
		0x0120 bLeaseModeEnable		
		0x0121 bDeviceLockFlag		
		0x0122~0x012E: DryContact Regisers		
	Tangyan	0x012F DryContactMode		
2021-11-22	Tangyan	0x0130 Parallel Setting	V3.15	
	chong	Add Write Single Registers		
		0x0052 ShutDown		
		0x0053 MicroGrid		
		0x00B4 LeaseModeEnable		
		0x00B5 DeviceLockFlag		
		0x00B6~0x00C3:DryContact Regisers		
		0x00C4 SelfuseModeBackupEn		
		0x00C5 SelfUse_BackupSoc		
		0x00C6 Parallel Setting		
2022-01-04	Tangyan chong	Add Upgrade Example For X1G4(File DSP)	V3.16	
		Add Read Holding Registers		
0000 01 11	wangjia	0x00A9 MatchResistanceSet(X3)	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
2022-01-11	nxing	0x0131 ExternalGenEn	V3.17	
	.,,,,,,,	0x0131 ExternalGenMaxCharge		



	_		1	
		Add Write Single Registers		
		0x00C6 MatchResistanceSet(X3)		
		0x00C7 ExternalGenEn		
		0x00C8 ExternalGenMaxCharge		
		Add Read Holding Register (BMS Info)		
		Add Read Input Registers		
	tangyan	0x011F wBatteryForceChargeFlag		
2022-01-13	chong	0x0120 wBMSRelayState	V3.18	
		Add Read Holding Registers		
		0x00B9 Off-grid Frequncy		
		Add Read Holding Registers		
		0x0103 CtType(X3)		
2022-1-29	wangjia	Add Write Single Registers	V3.19	
	nxing	0x0027 CtType(X3)		
		Sync app settings parameters		
		Adjust the protection range of some parameters		
		(0x0005, 0x0006, 0x0008, 0x000D, 0x000F)		
		Add Read Holding Registers		
		0x00A0 EpsRestartSoc		
		0x00A1 HotStandbyEN		
		0x00A2 ExtendBmsSetting		
2022 4 14	wangjia	0x00B2 PgridBias	\/0.00	
2022-4-14	xing	Add Write Single Registers	V3.20	
		0x008E EpsRestartSoc		
		0x0099 HotStandbyEN		
		0x009A ExtendBmsSetting		
		0x008C EpsBatLowAutoRecoverVoltage		
		0x008D PgridBias		
		Add Read Holding Registers		
		0x00F2 SetpointTimeout		
		0x0012 Setpoint Timeout 0x0110 InPutDI1		
		0x0114 ShadowFixFuncEnable2		
	wangjia	0x007F FirmwareVersion_DSP_Major		
2022-6-21	nxing	0x0080 Firmware Version_ARM_Major	V3.21	
		Add Write Single Registers		
		0x0098 ShadowFixFuncEnable2		



# Version matching information

Protocol version	ARM version(X1)	ARM version(X3)
V3.01		
V3.02	V1. 01~V1. 03  V1. 04~1. 14  V1  1. 15	
V3.03	V1 ∩1 <sup>~</sup> V1 ∩2	
V3.04	V1. U1 V1. U3	V1. 01~V1. 03
V3.05		V1. U1 V1. U3
V3.06		
V3.07		
V3.08	V1 04 <sup>~</sup> 1 14	
V3.09	V1. U4 1. 14	V1. 04~V1. 09
V3.10		V1. 04 V1. 09
V3.11		
V3.12	1.15	
V3.13		V1. 10 <sup>~</sup> V1. 19
V3.14		V1.10 V1.19
V3.15		
V3.16	1.16	
V3.17		1.20
V3.18		1.20



### **Protocols** general

Protocol type: Modbus RTU(for 485)

Address: 1(defualt)

Braud Rate: 19200(default)

Data bits: 8

Stop Bit: 1

Parity: None

Frame format:

	4		MODBUS message		
Start	Address	Function	Data	CRC Check	Er
≥ 3.5 char	8 bits	8 bits to	//blog <b>N x 8 bits</b> 012166	<sup>958</sup> 16 bits	≥ 3.5

protocols type: Modbus TCP(for Monitoring module)

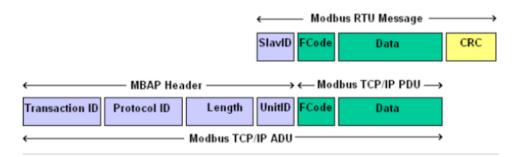
port: 502

Transaction ID:No compulsory requirements

Protocol ID:No compulsory requirements

UnitID:No compulsory requirements, use 0x01 by default

frame format:



Note: The inverter itself does not support modbus tcp function, function expansion must be completed through the monitoring module of solax. Since it is used for external expansion, the query cycle is expected to be controlled at about 1 second.



#### Time request:

Timing parameter	Value
The least interval time between two instructions	1 Sec
Character-gap time out(silent time between 2 package)	>100ms
Response timeout	1 Sec

**Notice**:When use "Write Single Registers" and "Write Multiple Registers" function, some registers will be write in EEprom if they are changed (these parameters can be saved after power failure). But the EEprom has the write times limit. Too frequent operation will lead to irreversible hardware damage. Related registers are marked with \*. If there is any doubt about the use, please contact the technical personnel in time.

#### 0x03:Read Holding Register

Function		on data use little endian format	Rea	d Holding Register			
Code	Register	Variable	W/R	descripton	Unit	Data format	Length
	0x0000 ~0x0006	InverterSN	R	14Chars, MSB=SN[14]	14Char	uint16	7
	0x0007 ~0x000D	FactoryName	R	14Chars, MSB=SN[14]	14Char	uint16	7
	0x000E ~0x0014	ModuleName	R	14Chars, MSB=SN[14]	14Char	uint16	7
	0x0015	REV				uint16	1
0X03	0x0016	TimeStart	R	launch wait time	1s	uint16	1
	0x0017	ReconnectionTime	R	Reconnection Time	1s	uint16	1
	0x0018	CheckingTime	R	CheckingTime	1s	uint16	1
	0x0019	VacMinProtect	R	allowed minimum grid voltage	0.1V	uint16	1
	0x001A	VacMaxProtect	R	allowed maximum grid voltage	0.1V	uint16	1
	0x001B	FacMinProtect	R	allowed minimum grid frequency	0.01Hz	uint16	1
	0x001C	FacMaxProtect	R	allowed maximum grid frequency	0.01Hz	uint16	1
	0x001D	SafetyCode	R	Safety type		uint16	1



	0: VDE0126		
	1: VDE4105		
	2: AS 4777_2020_A		
	3: G98/1( <mark>X1/X3</mark> )		
	4: C10/11		
	5: TOR( <mark>X1</mark> / <mark>X3</mark> )		
	6: EN50438_NL		
	7: Denmark2019_W(X3)		
	8: CEB		
	9: CEI021		
	10:NRS097_2_1		
	11:VDE0126_Gr_ls		
	12:UTE_C15_712		
	13:IEC61727( <mark>X1</mark> / <mark>X3</mark> )		
	14:G99/1		
	15:VDE0126_Gr_Co		
	16: Guyana		
	17:C15_712_is_50		
	18:C15_712_is_60		
	19:New Zealand		
	20:RD1699		
	21:Chile		
	(X3)		
	22:Israel		
	23:Czech_PPDS_2020		
	24:RD1699_Island		
	25:EN50549_Poland		
	26:EN50438_Portugal		
	27:PEA		
	28:MEA		
	29:EN50549_Sweden		
	30:Philippines		
	31:EN50438_Slovenia		
	32:Denmark2019_E		
	33:EN50549_EU		
	34:AS 4777_2020_B		
	35:AS 4777_2020_C		
	36:User-Defined		
	37:EN50549_Romania		
	38:CEI016		
	39: ACEA		
	(X3)		
	(X1)		
	(* (=)		



	POWER				_	
			22:EN50438_Ireland			
			23:Philippines			
			24:Czech PPDS_2020			
			25:Czech_50438			
			26: EN50549_EU			
			27: Denmark2019_E			
			28:RD1699_Island			
			29: EN50549_Poland			
			30:MEA_Thailand			
			31:PEA_Thailand			
			32:ACEA			
			33:AS 4777_2020_B			
			34:AS 4777_2020_C			
			35:User Define			
			36:EN50549_Romania			
0x001E	MateBoxEnable	R	0:Disable 1:Enable	1	uint16	
0x001E	Grid10MinAvgProtect	R	10minutes over voltage protect	0.1V	uint16	
0x001F	VacMinSlowProtect	R	grid undervoltage protect value	0.1V 0.1V	uint16	
0x0020	VacMaxSlowProtect	R	grid overvoltage protect value			
				0.1V	uint16	
0x0022	FacMinSlowProtect	R	grid underfrequency protect value	0.01HZ	uint16	
0x0023	FacMaxSlowProtect	R	grid overfrequency protect value	0.01HZ	uint16	
0x0024	REV	R	-	-	uint16	
0x0025	PowerLimitsPercent	R	output power limits precent	0~100	uint16	
			0: Off			
			1:Over Excited			
0x0026	PowerfactorMode	R	2:Under Excited	1	uint16	
			3:Curve	_		
			4:Qu			
			5:Fix Q Power			
0x0027	PowerfactorData	R	Power factor data	0.01	uint16	1
0x0028	PowerFactor_Curve_PF1	R	PowerFactor_Curve_PF1	0.01	uint16	1
0x0029	PowerFactor_Curve_PF2	R	PowerFactor_Curve_PF2	0.01	uint16	1
0x002A	PowerFactor_Curve_PF3	R	PowerFactor_Curve_PF3	0.01	uint16	1
0x002B	PowerFactor_Curve_PF4	R	PowerFactor_Curve_PF4	0.01	uint16	1
0x002C	PowerFactor_Curve_Power1	R	PowerFactor_Curve_Power1	1%	uint16	1
0x002D	PowerFactor_Curve_Power2	R	PowerFactor_Curve_Power2	1%	uint16	1
0x002E	PowerFactor_Curve_Power3	R	PowerFactor_Curve_Power3	1%	uint16	1
0x002F	PowerFactor_Curve_Power4	R	PowerFactor_Curve_Power4	1%	uint16	1
0x0030	PowerFactor_Curve_PfLockInPoint	R	PowerFactor_Curve_PfLockInPoint	0.01	uint16	1
0,0000	POWEIT actor_Curve_FILOCKIIIFOIIIt	IX.	1 OWEIT actor_curve_r recentling office	0.01	diritio	



0x0032	PowerFactor_Curve_3Tau	R	PowerFactor_Curve_3Tau	1s	uint16	1
0x0033	PowerFactor_Qu_VoltRatio1	R	PowerFactor_Qu_VoltRatio1	1%	uint16	1
0x0034	PowerFactor_Qu_VoltRatio4	R	PowerFactor_Qu_VoltRatio4	1%	uint16	1
0x0035	PowerFactor_Qu_QuResponseV1	R	PowerFactor_Qu_QuResponseV1	0.1V	uint16	1
0x0036	PowerFactor_Qu_QuResponseV2	R	PowerFactor_Qu_QuResponseV2	0.1V	uint16	1
0x0037	PowerFactor_Qu_QuResponseV3	R	PowerFactor_Qu_QuResponseV3	0.1V	uint16	1
0x0038	PowerFactor_Qu_QuResponseV4	R	PowerFactor_Qu_QuResponseV4	0.1V	uint16	1
0x0039	PowerFactor_Qu_K	R	PowerFactor_Qu_K	0.1	int16	1
0x003A	PowerFactor_Qu_3Tau	R	PowerFactor_Qu_3Tau	1s	uint16	1
0x003B	PowerFactor_Qu_QuDelayTimer	R	PowerFactor_Qu_QuDelayTimer	1s	uint16	1
0x003C	PowerFactor_Qu_QuLockEn	R	PowerFactor_Qu_QuLockEn	1	uint16	1
0,0030	Fowerractor_Qu_Qutocktri	IX	0:Disable 1::Enable	1	unitio	1
0x003D	PowerFactor_Qu_QuLockIn	R	PowerFactor_Qu_QuLockIn	1%	uint16	1
0x003E	PowerFactor_Qu_QuLockOut	R	PowerFactor_Qu_QuLockOut	1%	uint16	1
0x003F	PowerFactor_FixQPower	R	PowerFactor_FixQPower	1Var	int16	1
0x0040	PowerFactor_FixQPower_Max	R	PowerFactor_FixQPower_Max	1Var	int16	1
0x0041	PowerFactor_FixQPower_Min	R	PowerFactor_FixQPower_Min	1Var	int16	1
0x0042	wConnection_FL	R	Connection Low frequency	0.01Hz	int16	1
0x0043	wConnection_FH	R	Connection High frequency	0.01Hz	int16	1
0x0044	wConnection_VL	R	Connection Low voltage	0.1V	int16	1
0x0045	wConnection_VH	R	Connection High voltage	0.1V	int16	1
0x0046	wConnection_ObserveT	R	Connection Observation time	1S	int16	1
0x0047	wConnection_GradientEn	R	Connection Gradient Select	1	int16	1
0x0048	wReconnection_FL	R	Reconnection Low frequency	0.01HZ	int16	1
0x0049	wReconnection_FH	R	Reconnection High frequency	0.01Hz	int16	1
0x004A	wReconnection_VL	R	Reconnection Low voltage	0.1V	int16	1
0x004B	wReconnection_VH	R	Reconnection High voltage	0.1V	int16	1
0x004C	wReconnection_ObserveT	R	Reconnection Observation time	1S	int16	1
0x004D	wReconnection_GradientEn	R	Reconnection Gradient Select	1	int16	1
0x004E	wReconnection_Gradient	R	Reconnection Gradient	1%	int16	1
0x004F	Reserv	R	_	_	uint16	59
~0x007C	Neserv				diricio	00
0x007D	FirmwareVersion_DSP_Minor	R	FirmwareVersion_DSP_Minor	1	uint16	1
0x007E	Hardware Version_DSP	R	HardwareVersion_DSP	1	uint16	1
0x007F	FirmwareVersion_DSP_Major	R	FirmwareVersion_DSP_Major	1	uint16	1
0x0080	FirmwareVersion_ARM_Major	R	FirmwareVersion_ARM_Major	1	uint16	1
0x0081	Rev					
0x0082	FirmwareVersion_ModbusRTU	R	Current version matches FirmwareVersion_ARM	1	uint16	1
0x0083	Firmware Version_ARM_Minor	R	Firmware Version_ARM_Minor	1	uint16	1



0x0084	Firmware Version_ARM_Bootloader	R	Firmware Version_ARM_Bootloader	1	uint16	1
0x0085	RTC-Seconds	R	RTC-Seconds	_	uint16	1
0x0086	RTC-Minutes	R	RTC-Minutes	_	uint16	1
0x0087	RTC-Hours	R	RTC-Hours	_	uint16	1
0x0088	RTC-Days	R	RTC-Days	_	uint16	1
0x0089	RTC-Months	R	RTC-Months	_	uint16	1
0x008A	RTC-Years	R	RTC-Years	_	uint16	1
0x008B	Solar Charger Use Mode	R	SolarChargerUseMode: 0:Self use mode 1: Feedin Priority 2:Back up mode 3:Manual mode	1	uint16	1
0x008C	Manual mode	R	0:Stop charge&discharge 1:Force charge 2:Force discharge	1	uint16	1
0x008D	wBattery1_Type	R	0: Lead Acid 1: Lithium	1	uint16	1
0x008E	Charge_floatVolt	R	Lead-acid battery charge_float voltage	0.1V	uint16	1
0x008F	Battery_DischargeCutVoltage	R	Lead-acid battery discharge cut-off voltage	0.1V	uint16	1
0x0090	Battery_ChargeMaxCurrent	R	Lead-acid battery charge maximum current	0.1A	uint16	1
0x0091	Battery_DischargeMaxCurrent	R	Lead-acid battery discharge maximum Current	0.1A	uint16	1
0x0092	absorpt_voltage	R	Lead-acid battery absorpt_voltage	0.1V	uint16	1
	SelfUse_Discharge_MinSoC	R	10% ~100%	1%	uint8(Hi)	
0x0093	SelfUse_NightCharge_Enable	R	Whether to allow electricity from the grid 0:Disable 1:Enable	1	uint8(Lo)	1
0x0094	SelfUse_NightCharge_UpperSoC	R	This value will be enabled if SelfUse_NightCharge_Enable is 1. 10%~100%	1%	uint16	1
0x0095	Feedin_NightCharge_UpperSoC	R	10%~100%	1%	uint8(Hi)	1
0,0095	Feedin_Discharge_MinSoC	R	10%~100%	1%	uint8(Lo)	1
0x0096	BackUp_NightCharge_UpperSoC  BackUp_Discharge_MinSoC	R	30%~100% 30%~100%	1% 1%	uint8(Hi) uint8(Lo)	1
	packob_pischarAc_iviii1900					
0x0097	ChargePeriod1 StartMinute	l D	()=50			
	ChargePeriod1_StartMinute ChargePeriod1_StartHour	R R	0-59 0-23	1	uint8(Hi)	1
	ChargePeriod1_StartHour	R	0-23	1	uint8(Lo)	1
0x0098						1



	DischargePeriod1_StartHour	R	0-23	1	uint8(Lo)		
	_						
0x009A	DischargePeriod1_EndMinute	R	0-59	1	uint8(Hi)	1	
	DischargePeriod1_EndHour	R	0-23	1	uint8(Lo)		
0x009B	Set_Chrg&DischrgPeriod2_Enable	R	Whether to use period 2. 0:Disable 1:Enable	1	uint16	1	
0x009C	ChargePeriod2_StartMinute	R	0-59	1	uint8(Hi)	1	
000090	ChargePeriod2_StartHour	R	0-23	1	uint8(Lo)	1	
0x009D	ChargePeriod2_EndMinute		0-59	1	uint8(Hi)	1	
UXUU9D	ChargePeriod2_EndHour		0-23	1	uint8(Lo)	1	
0x009E	DischargePeriod2_StartMinute	R	0-59	1	uint8(Hi)	1	
UXUU9E	DischargePeriod2_StartHour	R	0-23	1	uint8(Lo)	1	
0x009F	DischargePeriod2_EndMinute	R	0-59	1	uint8(Hi)	1	
UXUU9F	Discharge Period2_EndHour	R	0-23	1	uint8(Lo)	1	
0x00A0	EpsRestartSoc	R	10~100	1%	uint16	1	
0x00A1	HotStandbyEN	R	0:enable 1:disable	1	uint16	1	
0x00A2	ExtendBmsSetting	ExtendBmsSetting R 0:disable 1:enable		1	uint16	1	
0x00A3	BatteryHeatingEn	R	0:disable 1:enable	-	uint16	1	
0x00A4	HeatingPeriod1_StartMinute	R	0-59	1	uint8(Hi)	1	
<b>O</b> /100/11	HeatingPeriod1_StartHour	R	0-23	1	uint8(Lo)	_	
0x00A5	HeatingPeriod1_EndMinute	R	0-59	1	uint8(Hi)	1	
	HeatingPeriod1_EndHour		0-23	1	uint8(Lo)		
0x00A6	HeatingPeriod2_StartMinute		0-59	1	uint8(Hi)	1	
	HeatingPeriod2_StartHour	R	0-23	1	uint8(Lo)		
0x00A7	HeatingPeriod2_EndMinute	R	0-59	1	uint8(Hi)	1	
	HeatingPeriod2_EndHour	R			uint8(Lo)	-	
0x00A8	wBatteryDischargeBackupVoltage	R	wBatteryDischargeBackupVoltage	0.1V	uint16	1	
0x00A9	MatchResistanceSet (X3)	R	0:disable 1:enable	-	uint16	1	
0x00AA	Registration Code (for external module)	R	Registration Code[10]	10char	uint16	1	
0x00AF	ModBusRTU_Address	R	ModBusRTU_Address	1	uint16	1	
0x00B0	ModBusRTU_BraudRate	R	0:115200 1:57600 2:56000 3:38400 4:19200 5:14400 6:9600	bit/s	uint16	1	
0x00B1	EpsBatLowAutoRecoverVoltage (Rev)	R	EpsBatLowAutoRecoverVoltage	0.1V	uint16	1	
0x00B2	PgridBias	R	0:Disable 1:Grid 2:INV	-	uint16	1	
0x00B3 ~0x00B4	REV	R	-	-	uint16	4	
0x00B5	Factorylimit	R	Factorylimit	1W	uint16	1	
0x00B6	Export control user limit	R	Export_control user limit	1W	uint16	1	



0x00B7	Off-grid_Mute	R	0(off)/1(on)	1	uint16	1
0x00B8	Off-grid_MinSoC	R	Off-grid_MinSoC	1%	uint16	1
0x00B9	Off-grid Frequncy	R	Off-grid Frequncy	1	uint16	1
0x00BA	Inverter Power Type	R	X1G4: 3000/3680/5000 /6000/7500 X3G4: 15K/12K/10k/8K /6K/5K	1W	uint16	1
0x00BB	Language	R	0:English 1:German 2:French 3:Polish 4:Spanish 5:Portuguese 6:Italian	0~5	uint16	1
0x00BC	EnableMPPT	R	1:enable 0:Disable	0/1	uint16	1
0x00BD	wTuvp_L2	R	wTuvp_L2	1ms	uint16	1
0x00BE	wTovp_L2	R	wTovp_L2	1ms	uint16	1
0x00BF	wTufp_L2	R	wTufp_L2	1ms	uint16	1
0x00C0	wTofp_L2	R	wTofp_L2	1ms	uint16	1
0x00C1	wTuvp_L1	R	wTuvp_L1	1ms	uint16	1
0x00C2	wTovp_L1	R	wTovp_L1	1ms	uint16	1
0x00C3	wTufp_L1	R	wTufp_L1	1ms	uint16	1
0x00C4	wTofp_L1	R	wTofp_L1	1ms	uint16	1
0x00C5	TestStep	R		1~8	uint16	1
0x00C6	OvpValue(Ovp(59.S2))	R		0.1V	uint16	1
0x00C7	OvpTime(Ovp(59.S2))	R		1ms	uint16	1
0x00C8	UvpValue(Uvp(27.S1))	R		0.1V	uint16	1
0x00C9	UvpTime(Uvp(27.S1))	R		1ms	uint16	1
0x00CA	OfpValue(Ofp(81>.S1))	R	TestStep	0.01Hz	uint16	1
0x00CB	OfpTime(Ofp(81>.S1))	R	1 means test Ovp(59.S2)	1ms	uint16	1
0x00CC	UfpValue(Ufp(81<.S1))	R	2 means test Uvp(27.S1)	0.01Hz	uint16	1
0x00CD	UfpTime(Ufp(81<.S1))	R	3 means test Uvp(27.S2)	1ms	uint16	1
0x00CE	SelfTestOvp10mAvgVal (Ovp_10(59.S1))	R	4 means test Ofp(81>.S1) 5 means test Ufp(81<.S1)	0.1V	uint16	1
0x00CF	SelfTestOvp10mAvgTime (Ovp_10(59.S1))	R	6 means test Ofp2(81>.S2) 7 means test Ufp2(81<.S2)	1S	uint16	1
0x00D0	SelfTestOfpVal_Restrictive (Ofp2(81>.S2))	R	8 means test Ovp_10(59.S1) 9 means success	0.01Hz	uint16	1
0x00D1	SelfTestOfpTime_Restrictive (Ofp2(81>.S2))	R		1ms	uint16	1
0x00D2	SelfTestUfpVal_Restrictive (Ufp2(81<.S2))	R		0.01Hz	uint16	1
0x00D3	SelfTestUfpTime_Restrictive (Ufp2(81<.S2))	R		1ms	uint16	1



	SelfTest_UvpRestrictive_Val					
0x00D4	(Uvp(27.S2))	R		0.1V	uint16	1
0x00D5	SelfTest_UvpRestrictive_Time (Uvp(27.S2))	R		1ms	uint16	1
0x00D6	SelfTest_Time	R		1s	uint16	1
0x00D7	MainBreakerCurrentLimit	R	32A~100A	1A	uint16	1
0x00D8	<del>PfLockInPoint</del>	R	Set Power Factor parameter	<del>105</del> ~110	uint16	1
0x00D9	<del>PfLockOutPoint</del>	R		<del>98~90</del>	uint16	1
0x00DA	wInverter_OutPut_Switch	R	1=ON;0=Off	0/1	uint16	1
0x00DB	OFPL_Point	R	Overfrequency load reduction point.	0.01Hz	uint16	1
0x00DC	OFPL_SetRate	R	Overfrequency load reduction rate.	1%	uint16	1
0x00DD	OFPL_DelayTime	R	Overfrequency load reduction delay time.	1ms	uint16	1
0x00DE	OFPL_fstop_disch	W	OFPL_fstop_disch	0.01Hz	uint16	1
0x00DF	OFPL_fPmin	W	OFPL_fPmin	0.01Hz	uint16	1
0x00E0	UserPassword	R	UserPassword	1	uint16	1
0x00E1	AdvancePassword	R	AdvancePassword	1	uint16	1
0x00E2	UFPL_Point	R	Underfrequency load increase point.	0.01Hz	uint16	1
0x00E3	UFPL_SetRate	R	Underfrequency load increase rate.	1%	uint16	1
0x00E4	UFPL_DelayTime	R	Underfrequency load increase delay time.	1ms	uint16	1
0x00E5	OFPL_CurveType	R	Overfrequency load reduction curve type selction.  0:Symmetry curve 1:Asymmetry curve	0/1	uint16	1
0x00E6	OFPL_Tstop	R	Overfrequency load reduction asymmetry curve stop time.	1s	uint16	1
0x00E7	OFPL_RemovePoint	R	Overfrequency load reduction frequency remove point.	0.01Hz	uint16	1
0x00E8	UFPL_RemovePoint	R	Underfrequency load increase frequency remove point.	0.01Hz	uint16	1
0x00E9	ExportSoftLimitEn	R	ExportSoftLimitEn	-	uint16	1
0x00EA	ExportHardLimitEn	R	ExportHardLimitEn	-	uint16	1
0x00EB	GeneralSoftLimitEn	R	GeneralSoftLimitEn	-	uint16	1
0x00EC	GeneralHardLimitEn	R	GeneralHardLimitEn	-	uint16	1
0x00ED	wAcPowerLimit	R	wAcPowerLimit	1VA(X1) 10VA(X3)	uint16	1
0x00EE	ConnectSlop(X3)	R	ConnectSlop	1%	uint16	1
0x00EF	ReconnectSlop(X3)	R	ReconnectSlop	1%	uint16	1



0x00F0	Hard Export Power	R	HardExportPower	1W(X1) 10W(X3)	uint16	1
0x00F1	HardAcPowertLimit	R	HardAcPowertLimit	1VA(X1) 10VA(X3)	uint16	1
0x00F2	SetpointTimeout	R	SetpointTimeout	1ms	uint16	1
0x00F3	wPowerLimitGra	R	wPowerLimitGra	0.0001	uint16	1
0x00F4	PuFunc_VoltResponse_V2	R		0.1V	uint16	1
0x00F5	PuFunc_VoltResponse_V3	R		0.1V	uint16	1
0x00F6	PuFunc_VoltResponse_V4	R	PuFunction Voltage	0.1V	uint16	1
0x00F7	PuFunc_VoltResponse_V1	R		0.1V	uint16	1
0x00F8	PuFunc_3Tau	R	PuFunc_3Tau	0.01	uint16	1
0x00F9	PUFuncEnable	R	0:disable 1:enable	1	uint16	1
0x00FA	SetPuPower1	R	SetPuPower1	1%	uint16	1
0x00FB	SetPuPower2	R	SetPuPower2	1%	uint16	1
0x00FC	SetPuPower3	R	SetPuPower3	1%	uint16	1
0x00FD	SetPuPower4	R	SetPuPower4	1%	uint16	1
0x00FE	Rev					
0x00FF	Pu_Tpye	R	Pu_Tpye	1	uint16	1
0x0100	UFPL_fstop_ch	R	UFPL_fstop_ch	0.01Hz	uint16	1
0x0101	UFPL_fPmax	R	UFPL_fPmax	0.01Hz	uint16	1
0x0102	DRMFunctionEnable	R	0:disable 1:enable	1	uint16	1
0x0103	CtType (X3)	R	0:100A 1:200A	1	uint16	1
0x0104	wShadowFixFuncEnable	R	0:Off, 1:Low, 2:Middle, 3:Hight	1	uint16	1
0x0105	MachineType_X1orX3	R	1:X1 3:X3	-	uint16	1
0x0106	PhasePowerBalance(X3)	R	0:disable 1:enable	1	uint16	1
0x0107	wMachineStyle	R	0:X-Hybrid 1:X-FIT	1	uint16	1
0x0108	MeterFunction	R	0:disable 1:enable	1	uint16	1
0x0109	Meter1ID	R	Meter1ID 1~200	1	uint16	1
0x010A	Meter2ID	R	Meter2ID 1~200	1	uint16	1
0x010B	DirectionMeterCT1	R	0:Positive 1:Negative	1	uint16	1
0x010C	DirectionMeter2	R	0:Positive 1:Negative	1	uint16	1
0x010D	ExternalInv	R	0:Enable1:Disable	1	uint16	1
0x010E	REV	R	_	1	uint16	2
~0x010F					0111110	_
0x0110	InPutDI1	R	0:低电平 1:高电平	1	uint16	1
0x0111	DischCutOffPoint_DifferentEN	R	Whether Lead-acid Battery discharge cut-off voltage point is enable.  0:disable 1:enable	1	uint16	1
0x0112	REV	R	-	-	uint16	1
0x0113	DischCutOffVoltage_GridMode	R	Lead-acid Battery discharge cut-off voltage in on-grid mode	0.1V	uint16	1



0x0114	ShadowFixFuncEnable2	R	R -0:Off, 1:Low, 2:Middle, 3:Hight		uint16	1
0x0115	Meter/CT select	R	0:Meter 1:CT	1	uint16	1
0x0116	FVRT_Function	R	0:Disable 1:Enable	1	uint16	1
0x0117	FVRT_VacUpper	R	If FVRT_Function is enable, FVRT Vac upper limit is available.	0.1V	uint16	1
0x0118	FVRT_VacLower	R	If FVRT_Function is enable, FVRT Vac lower limit is available.	0.1V	uint16	1
0x0119	REV	R	-	-	uint16	1
0x011A	REV	R	-	-	uint16	1
0x011B	bPVConnectionMode(X1)	R	PV connection.	1	uint16	1
0x011C	ShutDown(X1)	R	0:Disable 1:Enable	1	uint16	1
0x011D	MicroGrid(X1)	R	0:Disable 1:Enable	1	uint16	1
0x011E	Selfuse Mode Backup En	R	0:Disable 1:Enable	1	uint16	1
0x011F	bSelfUse_BackupSoc	R	10~100	1%	uint16	1
0x0120	bLeaseModeEnable	R	0:Disable 1:Enable	1	uint16	1
0x0121	bDeviceLockFlag	R	0:Disable 1:Enable	1	uint16	1
0x0122	ManualModeControl	R	0:OFF 1:ON	1	uint16	1
0x0123	FeedinOnPower	R	Grid connected pull in power point	1W	uint16	1
0x0124	bSwitchOnSoc	R	SOC trigger point of pull in action	1%	uint16	1
0x0125	ConsumeOffPower	R	Power consumption off trigger point	1W	uint16	1
0x0126	bSwitchOffSoc	R	SOC trigger point of breaking action	1%	uint16	1
0x0127	MinimumPerOnSignal	R	Minimum duration of single pull in	1min	uint16	1
0x0128	MaximumPerDayOn	R	Maximum cumulative pickup time of the day		uint16	1
0x0129	bScheduleEnable	R	0:Disable 1:Enable	1	uint16	1
0x012A	bP1_StartMinute	R	0-59	1	uint8(Hi)	1
OXOILX	bP1_StartHour	R	0-23	1	uint8(Lo)	
0x012B	bP1_StopMinute	R	0-59	1	uint8(Hi)	1
0.0225	bP1_StopHour	R	0-23	1	uint8(Lo)	_
0x012C	bP2_StartMinute	R	0-59	1	uint8(Hi)	1
	bP2_StartHour	R	0-23	1	uint8(Lo)	
0x012D	bP2_StopMinute	R	0-59	1	uint8(Hi)	
	bP2_StopHour	R	0-23 1 uint8(L		uint8(Lo)	
0x012E	WorkMode	R	0:Disable 1:manual 2:SmartSave	1	uint16	1
0x012F	DryContactMode	R	0:Load Management 1:Generator Control	1	uint16	1
0x0130	Parallel Setting	R	0:Free 1: Master 2:Slave	1	uint16	1
0x0131	ExternalGenEn	R	0:Disable 1:Enable	1	uint16	1

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0x0132	ExternalGenMaxCharge	R	ExternalGenMaxCharge	1W(X1) 10W(X3)	uint16	1
0x0133 ~0x013D	Rev					
0x013E	485CommFunSelect	R	0:modbus 485 1:EV Charge	1	uint16	1

Table 1-1 Data format description

Master request forma	ıt	
	Bytes number	Content format
Slave ID	1 byte	0x00~0xFF (Inverter default 0x01)
Function code	1 byte	0x03
Start register address	2 byte Address MSB Address LSB	0x0000-0xFFFF
Register number	2byte Data MSB Data LSB	N
CRC	2byte CRC MSB CRC MSB	
Slave normal respons	e	
Slave ID	1 byte	0x00~0xFF (Inverter default 0x01)
Function code	1 byte	0x03
Byte number	1 byte Data	2*N
Register date	N*2byte Data MSB Data LSB	
CRC	2byte	

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	CRC MSB					
	CRC MSB					
Slave fault response						
Slave ID	1buto	0x00~0xFF				
Slave ID	1byte	(Inverter default 0x01)				
Fault code	1byte	0x83				
Alama manal anada	16. 46	0x01 or 0x02 or 0x03 or				
Abnormal code	1byte	0x04				
	2byte					
CRC	CRC MSB					
	CRC MSB					

Example: read InverterSN(register:0x0000~0x006).

Master request: 01 03 00 00 00 07 04 08

Slave response: 01 03 0E 48 34 37 35 32 32 5A 48 45 4E 47 57 45 4E 63 26

## 0x03:Read Holding Register (BMS Info)

Function	nction		nput Reș	gister(BMS Info)			
code	register	variable	W/R	decription	unit	data format	lenth
	0x0200	Subsystem_Num	R	Subsystem_Num	1	Uint16	1
	0x0201	BMS_MasterVersion	R		1	Uint16	1
	0x0202	BMS_Slave1Version	R		1	Uint16	1
	0x0203	BMS_Slave2Version	R		1	Uint16	1
	0x0204	BMS_Slave3Version	R	Version type describe x.y	1	Uint16	1
	0x0205	BMS_Slave4Version	R	x = Uint8(Hi)	1	Uint16	1
	0x0206	BMS_Slave5Version	R	y = Uint8(Low)	1	Uint16	1
0x03	0x0207	BMS_Slave6Version	R		1	Uint16	1
	0x0208	BMS_Slave7Version	R		1	Uint16	1
	0x0209	BMS_Slave8Version	R		1	Uint16	1
	0x020A~ 0x0210	masterSN	R	masterSN	1	14char	7
	0x0211~ 0x0217	slave1_2SN	R	slave1_2SN	1	14char	7
	0x0218~ 0x021E	slave3_4SN	R	slave3_4SN	1	14char	7

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0x021F <sup>~</sup> 0x0225	slave5_6SN	R	slave5_6SN	1	14char	7
0x0226~ 0x022C	Slave7_8SN	R	Slave7_8SN	1	14char	7

# 0x04:Read Input Register

Function	Read Input Register									
code	Register	Variable	W/R	Decription	Unit	Data format	Lenth			
	0x0000	GridVoltage <b>(X1)</b>	R	GridVoltage	0.1V	uint16	1			
	0x0001	GridCurrent <b>(X1)</b>	R	GridCurrent	0.1A	int16	1			
	0x0002	GridPower <b>(X1)</b>	R	GridPower	1W	int16	1			
	0x0003	PvVoltage1	R	PvVoltage1	0.1V	uint16	1			
	0x0004	PvVoltage2	R	PvVoltage2	0.1V	uint16	1			
	0x0005	PvCurrent1	R	PvCurrent1	0.1A	uint16	1			
	0x0006	PvCurrent2	R	PvCurrent2	0.1A	uint16	1			
	0x0007	GridFrequency <b>(X1)</b>	R	GridFrequency	0.01Hz	uint16	1			
	0x0008	Temperature	R	radiator temperature	1℃	int16	1			
	0x0009	RunMode	R	Table 2-2 Run mode description		uint16	1			
	0x000A	Powerdc1	R	Powerdc1	1W	uint16	1			
	0x000B	Powerdc2	R	Powerdc2	1W	uint16	1			
	0x000C	TemperFaultValue	R	TemperFaultValue	1℃	int16	1			
0X04	0x000D	Pv1VoltFaultValue	R	Pv1VoltFaultValue	0.1V	uint16	1			
	0x000E	Pv2VoltFaultValue	R	Pv2VoltFaultValue	0.1V	uint16	1			
	0x000F	GfciFaultValue	R	GfciFaultValue	1mA	uint16	1			
	0x0010	GridVoltFaultValue	R	GridVoltFaultValue	0.1V	uint16	1			
	0x0011	GridFreqFaultValueT	R	GridFreqFaultValueT	0.01Hz	uint16	1			
	0x0012	DciFaultValue	R	DciFaultValue	1mA	uint16	1			
	0x0013	TimeCountDown	R	TimeCountDown	1ms	uint16	1			
	0x0014	BatVoltage_Charge1	R	BatVoltage_Charge1	0.1V	int16	1			
	0x0015	BatCurrent_Charge1	R	BatCurrent_Charge1	0.1A	int16	1			
	0x0016	Batpower_Charge1	R	Batpower_Charge1	1W	int16	1			
	0x0017	BMS_Connect_State	R	0:Disconnected 1:Connected	-	uint16	1			
	0x0018	TemperatureBat	R	TemperatureBat	1℃	int16	1			
	0x0019	BDCStatus	R	0: discharge 1: charge	-	uint16	1			



			2: stop			
0x001A	GridStatus	R	0: OnGrid 1: OffGrid	-	uint16	1
0x001B	MPPTCount	R	MPPTCount	1	uint16	1
0x001C	Battery Capacity	R	Battery capacity	1%	uint16	1
0x001D	OutputEnergy_Charge.LSB	R	OutputEnergy_Charge	0.1kWh	uint16	1
0x001E	OutputEnergy_Charge.MSB	R	OutputEnergy_Charge	0.1kWh	uint16	1
0x001F	REV					
0x0020	OutputEnergy_Charge_today	R	OutputEnergy_Charge_today	0.1kWh	uint16	1
0x0021	InputEnergy_Charge.LSB	R	InputEnergy_Charge	0.1kWh	uint16	1
0x0022	InputEnergy_Charge.MSB	R	InputEnergy_Charge	0.1kWh	uint16	1
0x0023	InputEnergy_Charge_today	R	InputEnergy_Charge_today	0.1kWh	uint16	1
0x0024	BMS ChargeMaxCurrent	R	BMS ChargeMaxCurrent (real time)	0.1A	uint16	1
0x0025	BMS DischargeMaxCurrent	R	BMS DischargeMaxCurrent (real time)	0.1A	uint16	1
0x0026 ~0x0027	BMS_BatteryCapacity	R	BMS_BatteryCapacity	Wh	uint16	1
0x0028 ~0x003D						
0x003E	PCSMajorFault	R	PCSMajorFault	-	uint16	1
0x003F	BatteryMajorFault	R	BatteryMajorFault	-	uint16	1
0x0040	InvFaultMessage.LSB	R	Inverter error code	-	uint16	1
0x0041	InvFaultMessage.MSB	R	X1:Table2-4 X3:Table2-3	-	uint16	1
0x0042	REV	R	REV	-	uint16	1
0x0043	Mgr FaultMessage	R	Table 2-5 Manager error code	-	uint16	1
0x0044	Bat_BMS_FaultMessage.LSB	R	Table 2-6 BMS error code	-	uint16	1
0x0045	Bat_BMS_FaultMessage.MSB	R		-	uint16	1
0x0046 0x0047	feedin_power	R	Feedin power is obtained from Meter or CT. (Postive mean generate power; Negative mean	1W	int32	2
0,0047			consumed power) (0x46:LSB,0x47:MSB)			
0x0047 0x0048 0x0049	feedin_energy_total(meter)	R	'	0.01kWh	uint32	2
0x0048	feedin_energy_total(meter)  consum_energy_total(meter)	R R	(0x46:LSB,0x47:MSB) energy to the grid	0.01kWh 0.01kWh	uint32 uint32	2
0x0048 0x0049 0x004A			(0x46:LSB,0x47:MSB) energy to the grid (0x48:LSB,0x49:MSB) energy form the grid			
0x0048 0x0049 0x004A 0x004B	consum_energy_total(meter)	R	(0x46:LSB,0x47:MSB) energy to the grid (0x48:LSB,0x49:MSB) energy form the grid (0x4A:LSB,0x4B:MSB)	0.01kWh	uint32	2



		ı			1	
0x004F	Off-gridFrequency(X1)	R	Off-grid _Frequency	0.01Hz	uint16	1
0x0050	Etoday_togrid	R	Today Energy (Inverter AC Port)	0.1kWh	uint16	1
0x0051	Rev	R	Rev	-	uint6	1
0x0052			Total Energy			
0x0053	Etotal_togrid	R	(Inverter AC Port) (0x52:LSB,0x53:MSB)	0.1kWh	uint32	2
0x0054	Lock State	R	0:locked 1:unlocked	-	uint16	1
0x0055	REV	R	REV		uint16	17
~0x0065	REV	K	REV	=	uiiitto	17
0x0066	BusVolt	R	BusVolt	0.1V	uint16	1
0x0067	wDcvFaultVal	R	wDcvFaultVal	0.1V	uint16	1
0x0068	wOverLoadFaultval	R	wOverLoadFaultval	1W	uint16	1
0x0069	wBatteryVoltFaultVal	R	wBatteryVoltFaultVal	0.1V	uint16	1
0x006A	GridVoltage_R <b>(X3)</b>	R	GridVoltage_R	0.1V	uint16	1
0x006B	GridCurrent_R <b>(X3)</b>	R	GridCurrent_R	0.1A	int16	1
0x006C	GridPower_R <b>(X3</b> )	R	GridPower_R	1W	int16	1
0x006D	GridFrequency_R <b>(X3)</b>	R	GridFrequency_R	0.01Hz	uint16	1
0x006E	GridVoltage_S <b>(X3)</b>	R	GridVoltage_S	0.1V	uint16	1
0x006F	GridCurrent_S <b>(X3)</b>	R	GridCurrent_S	0.1A	int16	1
0x0070	GridPower_S(X3)	R	GridPower_S	1W	int16	1
0x0071	GridFrequency_S(X3)	R	GridFrequency_S	0.01Hz	uint16	1
0x0072	GridVoltage_T <b>(X3)</b>	R	GridVoltage_T	0.1V	uint16	1
0x0073	GridCurrent_T <b>(X3)</b>	R	GridCurrent_T	0.1A	int16	1
0x0074	GridPower_T <b>(X3)</b>	R	GridPower_T	1W	int16	1
0x0075	GridFrequency_T <b>(X3)</b>	R	GridFrequency_T	0.01Hz	uint16	1
0x0076	Off-grid_Volt_R <b>(X3)</b>	R	Off-grid_Volt_R	0.1V	uint16	1
0x0077	Off-grid_Current_R <b>(X3)</b>	R	Off-grid_Current_R	0.1A	uint16	1
0x0078	Off-grid_PowerActive_R <b>(X3)</b>	R	Off-grid_PowerActive_R	1W	int16	1
0x0079	Off-grid_PowerS_R <b>(X3)</b>	R	Off-grid_PowerS_R	1VA	uint16	1
0x007A	Off-grid_Volt_S <b>(X3)</b>	R	Off-grid_Volt_S	0.1V	uint16	1
0x007B	Off-grid_Current_S <b>(X3)</b>	R	Off-grid_Current_S	0.1A	uint16	1
0x007C	Off-gridPowerActive_S(X3)	R	Off-gridPowerActive_S	1W	int16	1
0x007D	Off-gridPowerS_S <b>(X3)</b>	R	Off-gridPowerS_S	1VA	uint16	1
0x007E	Off-grid_Volt_T <b>(X3)</b>	R	Off-grid_Volt_T	0.1V	uint16	1
0x007F	Off-grid_Current_T(X3)	R	Off-grid_Current_T	0.1A	uint16	1
0x0080	Off-gridPowerActive_T(X3)	R	Off-gridPowerActive_T	1W	int16	1
0x0081	Off-gridPowerS_T(X3)	R	Off-gridPowerS_T	1VA	uint16	1



0x0082	adiaDawar Dahasa(V2)	R	FeedinPower_Rphase	1W	int32	2
~0x0083	edinPower_Rphase <b>(X3)</b>	K	(meter/CT) (082:LSB,0x83:MSB)	TVV	111132	۷
0x0084	adiaDawar Sahasa(V2)	R	FeedinPower_Sphase (meter/CT)	1W	int32	2
~0x0085	~0x0085 FeedinPower_Sphase(X3)		(0x84:LSB,0x85:MSB)	TVV	IIILOZ	۷
0x0086	II D T I 0/0		FeedinPower_Tphase	4144		0
~0x0087	edinPower_Tphase <b>(X3)</b>	R	(meter/CT) (0x86:LSB,0x87:MSB)	1W	int32	2
0x0088	On-gridRunTime	R	On-gridRunTime	0.1h	int32	2
~0x0089			(0x88:LSB,0x89:MSB)			
0x008A ~0x008B	Off-gridRunTime	R	Off-gridRunTime (0x8A:LSB,0x8B:MSB)	0.1h	int32	2
0x008C ~0x008D	REV	R	REV	-	uint16	2
0x008E			Off-gridYieldTotal			
~0x008F	Off-gridYieldTotal	R	(0x8E:LSB,0x8F:MSB)	0.1kWh	uint32	2
0x0090	Off-gridYieldToday	R	Off-gridYieldToday	0.1kWh	uint16	1
0x0091	EchargeToday	R	EchargeToday (Inverter AC Port)	0.1kWh	uint16	1
0x0092			EchargeTotal			
~0x0093	EchargeTotal	R	(Inverter AC Port) (0x92:LSB,0x93:MSB)	0.1kWh uint		2
0x0094	SolarEnergyTotal	R	SolarEnergyTotal	0.1kWh	uint32	2
~0x0095		D	(0x94:LSB,0x95:MSB)	0.4114/4	1.110	1
0x0096	SolarEnergyToday	R	SolarEnergyToday	0.1kWh	uint16	1
0x0097	REV	R	energy to the grid	-	uint16	1
0x0098	feedin_energy_today	R	(meter)	0.01kWh	uint32	2
~0x0099	roodin_onorgy_today		(0x98:LSB,0x99:MSB)	0.021(171)	GIIITEGE	_
0000 4			energy form the grid			
0x009A ~0x009B	consum_energy_today	R	(manto s)	0.01kWh	uint16	2
~0x009B	consum_energy_today		(meter)	U.UIKVVII	dilitio	
0x009C	consum_energy_today	IX	(0x9A:LSB,0x9B:MSB)	U.UIKVVII	diricio	
0x009D	InvVoltR(X3)	R	,	0.01KVVII	uint16	2
	InvVoltR(X3) InvVoltS(X3)	R R	(0x9A:LSB,0x9B:MSB) InvVoltR(X3) InvVoltS(X3)	0.1V 0.1V	uint16 uint16	2
0x009E	InvVoltR(X3)	R	(0x9A:LSB,0x9B:MSB) InvVoltR(X3)	0.1V	uint16	
0x009F	InvVoltR(X3) InvVoltS(X3)	R R	(0x9A:LSB,0x9B:MSB) InvVoltR(X3) InvVoltS(X3)	0.1V 0.1V	uint16 uint16	2
0x009F ~0x00A7	InvVoltR(X3) InvVoltS(X3) InvVoltT(X3)	R R R	(0x9A:LSB,0x9B:MSB) InvVoltR(X3) InvVoltS(X3) InvVoltT(X3)	0.1V 0.1V	uint16 uint16 uint16	2
0x009F ~0x00A7 0x00A8	InvVoltR(X3) InvVoltS(X3) InvVoltT(X3)	R R R	(0x9A:LSB,0x9B:MSB) InvVoltR(X3) InvVoltS(X3)	0.1V 0.1V	uint16 uint16 uint16	2



	0x00AB			(0xAA:LSB,0xAB:MSB)			
	0x00AC	accepting arrange total Matara	D	energy form the grid	0.01141/16	in+22	2
	0x00AD	consum_energy_total_Meter2	R	(0xAC:LSB,0xAD:MSB)	0.01kWh	uint32	2
	0x00AE	foodin operav today Mater?	R	energy to the grid	0.01kWh	uint16	2
	0x00AF	feedin_energy_today_Meter2	K	(0xAE:LSB,0xAF:MSB)	U.UIKVVII	umtto	2
	0x00B0	consum operav todav Motor?	R	energy form the grid	0.01kWh	uint16	2
	0x00B1	consum_energy_today_Meter2	ĸ	(0xB0:LSB,0xB1:MSB)	U.UIKVVII	uiiitto	۷
	0x00B2	FeedinPower_Rphase_Meter2	R	FeedinPower_Rphase(X3)	1W	int32	2
	0x00B3	reedim ower_Rphase_Meter2	IX	(0xB2:LSB,0xB3:MSB)	Τ ۷ ν	IIILOZ	۷
	0x00B4	FeedinPower_Sphase_Meter2	R	FeedinPower_Sphase(X3)	1W	int32	2
	0x00B5	r cedim ower_sphase_ivictor2	IX	(0xB4:LSB,0xB5:MSB)	Τ V V	IIICOZ	
	0x00B6	FeedinPower_Tphase_Meter2	R	FeedinPower_Tphase(X3)	1W	int32	2
	0x00B7	Teedin ewer_rpndse_ivieter2	- 1	(0xB6:LSB,0xB7:MSB)	T V V	11102	
	0x00B8	Meter1CommunicationSate	R	0:Com Error 1:Normal	1	uint16	1
	0x00B9	Meter2CommunicationSate	R	0:Com Error 1:Normal	1	uint16	1
	0x00BA	Battery_Tem_High	R	Battery_Tem_High	0.1℃	int16	1
	0x00BB	Battery_Tem_Low	R	Battery_Tem_Low	0.1°C	int16	1
	0x00BC	Cell_Voltage_High	R	Cell_Voltage_High	0.001V	Uint16	1
(	0x00BD	Cell_Voltage_Low	R	Cell_Voltage_Low	0.001V	Uint16	1
	0x00BE	BMS_UserSOC	R	BMS_UserSOC	1%	Uint16	1
	0x00BF	BMS_UserSOH	R	BMS_UserSOH	1%	Uint16	1
	0x00C0	GridReactivePower_Total_Meter	R	GridReactivePower_Total_Meter	1Var	int16	1
	0x00C1	GridReactivePower_R_Meter	R	GridReactivePower_R_Meter	1Var	int16	1
	0x00C2	GridReactivePower_S_Meter	R	GridReactivePower_S_Meter	1Var	int16	1
	0x00C3	GridReactivePower_T_Meter	R	GridReactivePower_T_Meter	1Var	int16	1
	0x00C4	GridPowerFactor_Total_Meter	R	GridPowerFactor_Total_Meter	0.01	int16	1
	0x00C5	GridPowerFactor_R_Meter	R	GridPowerFactor_R_Meter	0.01	int16	1
	0x00C6	GridPowerFactor_S_Meter	R	GridPowerFactor_S_Meter	0.01	int16	1
	0x00C7	GridPowerFactor_T_Meter	R	GridPowerFactor_T_Meter	0.01	int16	1
	0x00C8	GridFrequency_Meter	R	GridFrequency_Meter	0.01Hz	Uint16	1
	0x00C9	GridVoltage_Total_Meter	R	GridVoltage_Total_Meter	0.1V	Uint16	1
(	0x00CA	GridVoltage_R_Meter	R	GridVoltage_R_Meter	0.1V	Uint16	1
	0x00CB	GridVoltage_S_Meter	R	GridVoltage_S_Meter	0.1V	Uint16	1
	0x00CC	GridVoltage_T_Meter	R	GridVoltage_T_Meter	0.1V	Uint16	1
	0x00CD	GridCurrent_Total_Meter	R	GridCurrent_Total_Meter	0.1A	int16	1
	0x00CE	GridCurrent_R_Meter	R	GridCurrent_R_Meter	0.1A	int16	1
	0x00CF	GridCurrent_S_Meter	R	GridCurrent_S_Meter	0.1A	int16	1
	0x00D0	GridCurrent_T_Meter	R	GridCurrent_T_Meter	0.1A	int16	1



0x00D1	Rev	R	-	-	uint16	70
~0x00FF						
0x0100	ModbusPowerControl	R	0:disable remote control 1:enable power control 2:enable electric quantity control 3:enable SOC target control	1	uint16	1
0x0101	TargetFinishFlag	R	0:unfinished 1:finish	-	uint16	1
0x0102	- ActivePowerTarget	R	ActivePowerTarget	1W	int32	2
0x0103						
0x0104	wReactivePowerTarget	R	wReactivePowerTarget	1Var	int32	2
0x0105			Aut De Dool			
0x0106 0x0107	wActivePowerReal	R	wActivePowerReal (0x106:LSB,0x107:MSB)	1W	int32	2
0x0108	wReactivePowerReal	R	wReactivePowerReal	1Var	int32	2
0x0109 0x010A			(0x108:LSB,0x109:MSB) wActivePower_Upper			
0x010A	wActivePower_Upper	R	(0x10A:LSB,0x10B:MSB)	1W	int32	2
0x010C	- wActivePower_Lower	R	wActivePower_Lower	1W	int32	2
0x010D	wactiverowei_towei	K	(0x10C:LSB,0x10D:MSB)	TAA	IIILOZ	۷
0x010E	wReactivePowe_Upper	R	wReactivePowe_Upper	1Var	int32	2
0x010F			(0x10E:LSB,0x10F:MSB)			
0x0110 0x0111	wReactivePower_Lower	R	wReactivePower_Lower (0x110:LSB,0x111:MSB)	1Var	int32	2
0x0112			, ,			
0x0113	TargetEnergy	R	TargetEnergy	1Wh	int32	2
0x0114	Charge_Discharg_Power	R	Charge_Discharg_Power	1W	int32	2
0x0115	Charge_Discharg_r ower	11	(0x114:LSB,0x115:MSB)	Τ V V	IIILOZ	2
0x0116	ChargeableElectricCapacity	R	ChargeableElectricCapacity	1Wh	uint32	2
0x0117 0x0118			(0x116:LSB,0x117:MSB)  DischargeableElectricCapacity			
0x0118	DischargeableElectricCapacity	R	(0x118:LSB,0x119:MSB)	1Wh	uint32	2
0x011A	Time_of_Duration	R	Time_of_Duration	1s	uint16	1
0x011B	TargetSoc	R	TargetSoc	1%	uint16	1
0x011C	SocUpper	R	SocUpper	1%	uint16	1
0x011D	SocLower	R	SocLower	1%	uint16	1
0x011E	RemoteCtrlTimeOut	R	RemoteCtrlTimeOut (4~65535)	1s	uint16	1
0x011F	wBatteryForceChargeFlag	R	0:No Action 1:Force Charge	1	uint16	1
0x0120	wBMSRelayState	R	0:OFF 1:ON	1	uint16	1



Table 2-1 Data format description

Master request forma	nt	
	Bytes number	Content format
Slave ID	1 byte	0x00~0xFF (Inverter default 0x01)
Function code	1 byte	0x04
Start register address	0x0000-0xFFFF	
Register number	2byte Data MSB Data LSB	N
CRC	2byte CRC MSB CRC MSB	
Slave normal respons	e	
Slave ID	1 byte	0x00~0xFF (Inverter default 0x01)
Function code	1 byte	0x04
Byte number	1 byte Data	2*N
Register date	N*2byte Data MSB Data LSB	
CRC	2byte CRC MSB CRC MSB	
Clave fault response		
Slave fault response		
Slave ID	1byte	0x00~0xFF (Inverter default 0x01)
Fault code	1byte	0x84
Abnormal code	1byte	0x01 or 0x02 or 0x03 or

X	SOLAX

		0x04			
	2byte				
CRC	CRC MSB				
	CRC MSB				

Example: read Mgr FaultMessage, Bat\_BMS\_FaultMessage (Register:0x0043~0x0045)

Master request: 01 04 00 43 00 03 41 DF

Slave response: 01 04 06 00 00 00 00 00 00 60 93

Table 2-2 Run mode description

	Run mode				
Code	Description				
0	Waiting				
1	Checking				
2	Normal				
3	Fault				
4	Permanent Fault				
5	Update				
6	Off-grid waiting				
7	Off-grid				
8	Self Testing				
9	ldle				
10	Standby				

Table 2-3 Inverter error code(X3)

Inverter error code(X3)				
Byte num	Bit	Fault		
	BIT0	TZ Protect Fault		
BYTE0	BIT1	Grid Lost Fault		
	BIT2	Grid Volt Fault		



	BIT3	Grid Freq Fault
	BIT4	PV Volt Fault
	BIT5	Bus Volt Fault
	BIT6	Bat Volt Fault
	BIT7	AC10mins Volt Fault
	BIT8	DCI OCP Fault
	BIT9	DCV OCP Fault
	BIT10	SW OCP Fault
	BIT11	RC OCP Fault
BYTE1	BIT12	Isolation Fault
	BIT13	Temp Over Fault
	BIT14	BatConnDir Fault
	BIT15	Off-grid Overload
	BIT16	Overload
	BIT17	Bat Power Low
	BIT18	BMS Lost
	BIT19	Fan Fault
BYTE2	BIT20	Low Temp Fault
	BIT21	Reserve21
	BIT22	Reserve22
	BIT23	INV Volt Sample Fault
	BIT24	Inner Comm Fault
	BIT25	INV EEPROM Fault
	BIT26	RCD Fault
DVTEO	BIT27	Grid Relay Fault
ВҮТЕ3	BIT28	Off-grid Relay Fault
	BIT29	PV ConnDir Fault
	BIT30	Charger Relay Fault
	BIT31	Earth Relay Fault

Table 2-4 Inverter error code(X1)

Inverter error code(X1)					
Byte num	Bit	Fault			
BYTE0	BIT0	TZ Protect Fault			



	BIT1	Grid Lost Fault
	BIT2	Grid Volt Fault
	BIT3	Grid Freq Fault
	BIT4	PV Volt Fault
	BIT5	Bus Volt Fault
	BIT6	Bat Volt Fault
	BIT7	AC10mins Volt Fault
	BIT8	DCI OCP Fault
	BIT9	Reserve9
	BIT10	SW OCP Fault
	BIT11	RC OCP Fault
BYTE1	BIT12	Isolation Fault
	BIT13	Temp Over Fault
	BIT14	BatConnDir Fault
	BIT15	Missed CT Fault
	BIT16	Off-grid Overload Fault
	BIT17	Overload Fault
	BIT18	PV ConnDir Fault
DVTEO	BIT19	Bat Power Low
BYTE2	BIT20	Low Temp Fault
	BIT21	Reserve
	BIT22	Charger Relay Fault
	BIT23	BMS Lost
	BIT24	Inner Comm Fault
	BIT25	Fan Fault
	BIT26	Earth Relay Fault
D)/TEO	BIT27	INV EEPROM Fault
BYTE3	BIT28	RCD Fault
	BIT29	Off-grid Relay Fault
	BIT30	Grid Relay Fault
	BIT31	Other Device Fault
	-	•



Table 2-5 Manager error code

	Manag	ger error code
Byte num	Bit	Fault
	BIT0	Power Type Fault
	BIT1	Port OC Warning
	BIT2	Mgr EEPROM Fault
D)/TEO	BIT3	Reserve3
BYTE0	BIT4	NTC Sample Invalid
	BIT5	Bat Temp Low
	BIT6	Bat Temp High
	BIT7	Reserve7
	BIT8	Reserve8
	BIT9	Meter Fault
	BIT10	Bypass Relay Fault
->	BIT11	Fan 2 Fault
BYTE1	BIT12	Reserve12
	BIT13	Reserve13
	BIT14	Reserve14
	BIT15	Reserve15

Table 2-6 BMS warning code

	BMS warning code						
Byte num	Bit	Fault					
	BIT0	BMS_External_Err					
	BIT1	BMS_Internal_Err					
	BIT2	BMS_OverVoltage					
BYTE0	BIT3	BMS_LowerVoltage					
DITEU	BIT4	BMS_ChargeOCP					
	BIT5	BMS_DischargeOCP					
	BIT6	BMS_TemHigh					
	BIT7	BMS_TemLow					
BYTE1	BIT8	BMS_CellImbalance					



	BIT9	BMS_Hardware_Protect
	BIT10	BMS_Circuit_Fault
	BIT11	BMS_ISO_Fault
	BIT12	BMS_VolSen_Fault
	BIT13	BMS_TempSen_Fault
	BIT14	BMS_CurSen_Fault
	BIT15	BMS_Relay_Fault
	BIT16	BMS_Type_Unmatch
	BIT17	BMS_Ver_Unmathch
	BIT18	BMS_MFR_Unmathch
BYTE2	BIT19	BMS_SW_Unmathch
DITEZ	BIT20	BMS_ M&S_Unmatch
	BIT21	BMS_CR_NORespond
	BIT22	BMS_SW_Protect
	BIT23	BMS_536_Fault
	BIT24	BMS_SelfcheckErr
	BIT25	BMS_TempdiffErr
	BIT26	MS_BreakFault
BYTE3	BIT27	BMS_Flash_Fault
DITES	BIT28	BMS_Precharge_Fault
	BIT29	BMS_AirSwitch_Break
	BIT30	Rev
	BIT31	Rev

# 0x04:Read Input Register(Selftest)

Function code	Read Input Register(Selftest)							
	Register	Variable	W/R	Decription	Unit	Data format	Lenth	

	0x0180	wSelfTest_step	R	TestStep 1 means test Ovp(59.S2) 2 means test Uvp(27.S1) 3 means test Uvp(27.S2) 4 means test Ofp(81>.S1) 5 means test Ufp(81<.S1) 6 means test Ofp2(81>.S2) 7 means test Ufp2(81<.S2) 8 means test Ovp_10(59.S1) 9 means success	1	uint16	1
	0x0181	wSelfTest_Time	R	The remaining time of each test	1s	uint16	1
0x04	0x0182	wSelfTest_State	R	bit0:OvpTestState bit1:UvpTestState bit2:Uvp_RestriTestState bit3:OfpTestState bit4:UfpTestState bit5:Ofp_RestriTestState bit6:Ufp_RestriTestState bit7:Ovp10mAvgTestState 1-finish 0-testing	1	uint16	1
	0x0183	Ovp_Threshold_Target	R		0.1V	uint16	1
	0x0184	Ovp_Threshold_Time	R		1ms	uint16	1
	0x0185	Ovp_Outcome_Sample_R	R	1	0.1V	uint16	1
	0x0186	Outcome_TripValue_R	R		0.1V	uint16	1
	0x0187	Ovp_Outcome_Time_R	R		1ms	uint16	1
	0x0188	Ovp_Outcome_Sample_S(X3)	R	Ovp(59.S2)test	0.1V	uint16	1
	0x0189	Ovp_Outcome_TripValue_S(X3)	R		0.1V	uint16	1
	0x018A	Ovp_Outcome_Timel_S(X3)	R		1ms	uint16	1
	0x018B	Ovp_Outcome_Sample_T(X3)	R		0.1V	uint16	1
	0x018C	Ovp_Outcome_TripValue_T(X3)	R		0.1V	uint16	1
	0x018D	Ovp_Outcome_Timel_T(X3)	R		1ms	uint16	1
	0x018E	Uvp_Threshold_Target	R		0.1V	uint16	1
	0x018F	Uvp_Threshold_Time	R		1ms	uint16	1
	0x0190	Uvp_Outcome_Sample_R	R		0.1V	uint16	1
	0x0191	Uvp_Outcome_TripValue_R	R	Uvp(27.S1)test	0.1V	uint16	1
	0x0192	Uvp_Outcome_Time_R	R		1ms	uint16	1
	0x0193	Uvp_Outcome_Sample_S(X3)	R		0.1V	uint16	1
	0x0194	Uvp_Outcome_TripValue_S(X3)	R		0.1V	uint16	1



0x0	Uvp_Outcome_Time_S(X3)	R		1ms	uint16	1
0x0	96 Uvp_Outcome_Sample_T(X3)	R		0.1V	uint16	1
0x0	97 Uvp_Outcome_TripValue_T(X3)	R		0.1V	uint16	1
0x0	98 Uvp_Outcome_Time_T(X3)	R		1ms	uint16	1
0x0:	99 UvpRestric_Threshold_Target	R		0.1V	uint16	1
0x0:	9A UvpRestric_Threshold_Time	R		1ms	uint16	1
0x0:	9B UvpRestric_Outcome_Sample_R	R		0.1V	uint16	1
0x0:	9C UvpRestric_Outcome_TripValue_R	R		0.1V	uint16	1
0x0	UvpRestric_Outcome_Time_R	R		1ms	uint16	1
0x0	<b>9E</b> UvpRestric_Outcome_Sample_S(X3)	R	Uvp(27.S2)test	0.1V	uint16	1
0x0	<b>9F</b> UvpRestric_Outcome_TripValue_S(X3)	R		0.1V	uint16	1
0x0	UvpRestric_Outcome_Time_S(X3)	R		1ms	uint16	1
0x0:	UvpRestric_Outcome_Sample_T(X3)	R		0.1V	uint16	1
0x0	UvpRestric_Outcome_TripValue_T(X3)	R		0.1V	uint16	1
0x0:	UvpRestric_Outcome_Time_T(X3)	R		1ms	uint16	1
0x0:	Ofp_Threshold_Target	R		0.01Hz	uint16	1
0x0:	Ofp_Threshold_Time	R		1ms	uint16	1
0x0:	Ofp_Outcome_Sample_R	R		0.01Hz	uint16	1
0x0:	A7 Ofp_Outcome_TripValue_R	R		0.01Hz	uint16	1
0x0:	Ofp_Outcome_Time_R	R		1ms	uint16	1
0x0:	Ofp_Outcome_Sample_S(X3)	R	Ofp(81>.S1)test	0.01Hz	uint16	1
0x01	Ofp_Outcome_TripValue_S(X3)	R		0.01Hz	uint16	1
0x0	AB Ofp_Outcome_Time_S(X3)	R		1ms	uint16	1
0x02	Ofp_Outcome_Sample_T(X3)	R		0.01Hz	uint16	1
0x01	Ofp_Outcome_TripValue_T(X3)	R		0.01Hz	uint16	1
0x0:	AE Ofp_Outcome_Time_T(X3)	R		1ms	uint16	1
0x0:	AF Ufp_Threshold_Target	R		0.01Hz	uint16	1
0x0	Ufp_Threshold_Time	R		1ms	uint16	1
0x0:	Ufp_Outcome_Sample_R	R		0.01Hz	uint16	1
0x0:	Ufp_Outcome_TripValue_R	R		0.01Hz	uint16	1
0x0:	Ufp_Outcome_Time_R	R	Ufp(81<.S1)test	1ms	uint16	1
0x0:	Ufp_Outcome_Sample_S(X3)	R	016(017.91)(62(	0.01Hz	uint16	1
0x0	Ufp_Outcome_TripValue_S(X3)	R	j t	0.01Hz	uint16	1
0x0:	Ufp_Outcome_Time_S(X3)	R		1ms	uint16	1
0x0	Ufp_Outcome_Sample_T(X3)	R		0.01Hz	uint16	1
0x0	Ufp_Outcome_TripValue_T(X3)	R		0.01Hz	uint16	1



	0x01B9	Ufp_Outcome_Time_T(X3)	R		1ms	uint16	1
	0x01BA	OfpRestric_Threshold_Target	R		0.01Hz	uint16	1
	0x01BB	OfpRestric_Threshold_Time	R		1ms	uint16	1
	0x01BC	OfpRestric_Outcome_Sample_R	R		0.01Hz	uint16	1
	0x01BD	OfpRestric_Outcome_TripValue_R	R		0.01Hz	uint16	1
	0x01BE	OfpRestric_Outcome_Time_R	R		1ms	uint16	1
	0x01BF	OfpRestric_Outcome_Sample_S(X3)	R	Ofp2(81>.S2)test	0.01Hz	uint16	1
	0x01C0	OfpRestric_Outcome_TripValue_S(X3)	R		0.01Hz	uint16	1
	0x01C1	OfpRestric_Outcome_Time_S(X3)	R		1ms	uint16	1
	0x01C2	OfpRestric_Outcome_Sample_T(X3)	R		0.01Hz	uint16	1
	0x01C3	$OfpRestric\_Outcome\_TripValue\_T(X3)$	R		0.01Hz	uint16	1
	0x01C4	OfpRestric_Outcome_Time_T(X3)	R		1ms	uint16	1
	0x01C5	UfpRestric_Threshold_Target	R	Ufp2(81<.S2)test	0.01Hz	uint16	1
	0x01C6	UfpRestric_Threshold_Time	R		1ms	uint16	1
	0x01C7	UfpRestric_Outcome_Sample_R	R		0.01Hz	uint16	1
	0x01C8	UfpRestric_Outcome_TripValue_R	R		0.01Hz	uint16	1
	0x01C9	UfpRestric_Outcome_Time_R	R		1ms	uint16	1
-	0x01CA	UfpRestric_Outcome_Sample_S(X3)	R		0.01Hz	uint16	1
	0x01CB	UfpRestric_Outcome_TripValue_S(X3)	R		0.01Hz	uint16	1
	0x01CC	UfpRestric_Outcome_Time_S(X3)	R		1ms	uint16	1
	0x01CD	UfpRestric_Outcome_Sample_T(X3)	R		0.01Hz	uint16	1
	0x01CE	UfpRestric_Outcome_TripValue_T(X3)	R		0.01Hz	uint16	1
	0x01CF	UfpRestric_Outcome_Time_T(X3)	R		1ms	uint16	1
	0x01D0	Ovp10mAvg_Threshold_Target	R		0.1V	uint16	1
	0x01D1	Ovp10mAvg_Threshold_Time	R		1s	uint16	1
	0x01D2	Ovp10mAvg_Outcome_Sample_R	R		0.1V	uint16	1
	0x01D3	Ovp10mAvg_Outcome_TripValue_R	R		0.1V	uint16	1
	0x01D4	Ovp10mAvg_Outcome_Time_R	R		1s	uint16	1
	0x01D5	Ovp10mAvg_Outcome_Sample_S(X3)	R	Ovp10(59.S1)test	0.1V	uint16	1
	0x01D6	Ovp10mAvg_Outcome_TripValue_S(X3)	R		0.1V	uint16	1
	0x01D7	Ovp10mAvg_Outcome_Time_S(X3)	R		1s	uint16	1
	0x01D8	Ovp10mAvg_Outcome_Sample_T(X3)	R		0.1V	uint16	1
	0x01D9	Ovp10mAvg_Outcome_TripValue_T(X3)	R		0.1V	uint16	1
	0x01DA	Ovp10mAvg_Outcome_Time_T(X3)	R		1s	uint16	1



# 0x04:Read Input Register(Parallel)

Function		Read Input	Reg	ister(Parallel State)			
code	Register	Variable	W/ R	Decription	Unit	Data format	Lenth
	0x01DD	SystemInvNum	R	SystemInvNum	1	uint16	1
	0x01DE	Rev	R	Rev	1	uint16	1
	0x01DF	Rev	R	Rev	1	uint16	1
	0x01E0	InvActivePower_R_All		InvActivePower_R_All	1W	int32	2
	0x01E1	IIIVACIIVCI OWCI_I\_/ III	R	IIIVACIIVCI OWCI_I\_i\ III	⊥ v v	IIILOZ	۷
	0x01E2	InvActivePower_S_All	R	InvActivePower_S_All	1W	int32	2
	0x01E3	111V/ 10L1V01 0VV01_0_/ 111	'`	11107 lottvo1 00001_0_7 til	Τ , ,	111102	
	0x01E4	InvActivePower_T_All	R	InvActivePower_T_All	1W	int32	2
	0x01E5	11107 (OLIVO) OVICI_1_7 (II	'`	11107 (011001 00001_1_7 11)	Τ , ,	111102	
	0x01E6	InvReactiveOrApparentPower_R_All	R	InvReactiveOrApparentPower_R_All	1VA	int32	2
	0x01E7	mirrodotivo en apparente en	L'`	miviodotivoci, ipparona cc	± <b>v</b> , .	11102	
	0x01E8	InvReactiveOrApparentPower_S_All	R	InvReactiveOrApparentPower_S_All	1VA	int32	2
	0x01E9						
	0x01EA	InvReactiveOrApparentPower_T_All	R	InvReactiveOrApparentPower_T_All	1VA	int32	2
0x04	0x01EB						
	0x01EC	InvCurrent_R_All	R	InvCurrent_R_All	0.1A	int32	2
	0x01ED						
	0x01EE 0x01EF	InvCurrent_S_All	R	InvCurrent_S_All	0.1A	int32	2
	0x01F0						
	0x01F1	InvCurrent_T_All	R	InvCurrent_T_All	0.1A	int32	2
	0x01F2						
	0x01F3	PvPower_ChannelA_All	R	PvPower_ChannelA_All	1W	uint32	2
	0x01F4		Ĺ		114/	00	
	0x01F5	PvPower_ChannelB_All	R	PvPower_ChannelB_All	1W	uint32	2
	0x01F6	D. C. Charles Old All	_	D. C. Charles old All	011	· -+00	
	0x01F7	PvCurrent_ChannelA_All	R	PvCurrent_ChannelA_All	0.1A	uint32	2
	0x01F8	PvCurrent_ChannelB_All	R	PvCurrent_ChannelB_All	0.1A	uint32	2
	0x01F9	1 Vouriont_onumino.b_,	١,	1 Vouriont_onamicis_, iii	0.1,	unito_	_



	0x01FA	BatPower_All	R	BatPower_All	1W	int32	2
	0x01FB	Dati Owei_/\li	- 1	Bati Gwei_/ III	100	IIICOZ	۷
	0x01FC	BatCurrent_All	R	BatCurrent_All	0.1A	int32	2
	0x01FD		<u> </u>		0.17	111102	
	0x01FE	ChargePowerLimit_All	R	ChargePowerLimit_All	1W	int32	2
	0x01FF			3 -			
	<b>0x0200</b>	DischargePowerLimit_All	R	DischargePowerLimit_All	1W	int32	2
	0x0201	-	╄				
	0x0202	Rev	R	Rev	-	uint16	1
	0x0203	Rev	R	Rev	-	uint16	1
	0x0204	InvActivePower_R	R	slave1 data	1W	int16	1
	0x0205	InvActivePower_S	R		1W	int16	1
	0x0206	InvActivePower_T	R		1W	int16	1
	0x0207	InvReactiveOrApparentPower_R	R		1VA	int16	1
	0x0208	InvReactiveOrApparentPower_S	R		1VA	int16	1
	0x0209	InvReactiveOrApparentPower_T	R		1VA	int16	1
	0x020A	InvCurrent_R	R		0.1A	int16	1
	0x020B	InvCurrent_S	R		0.1A	int16	1
	0x020C	InvCurrent_T	R		0.1A	int16	1
	0x020D	PvPower_ChannelA	R		1W	uint16	1
	0x020E	PvPower_ChannelB	R		1W	uint16	1
	0x020F	PvVoltage_ChannelA	R		0.1V	uint16	1
	0x0210	PvVoltage_ChannelB	R		0.1V	uint16	1
	0x0211	PvCurrent_ChannelA	R		0.1A	uint16	1
	0x0212	PvCurrent_ChannelB	R		0.1A	uint6	1
	0x0213	BatPower	R		1W	uint16	1
	0x0214	BatVoltage	R		0.1V	uint16	1
	0x0215	BatCurrent	R		0.1A	uint16	1
	0x0216	ChargePowerLimit	R		1W	uint16	1
	0x0217	DischargePowerLimit	R		1W	uint16	1
	0x0218	BatFaultMessage	R		1	uint16	1
	0x0219	BatCapacity	R		1%	uint16	1
	0x021A	Rev	R		1	uint32	2
	0x021B	I V V				uiiitoZ	_
	0x021C	Rev	R		1	uint32	2
	0x021D		١١			SIIILOZ	_



	0x021E	InvActivePower_R	R	1W	int16	1	
	0x021F	InvActivePower S	R		1W	int16	1
	0x0220	 InvActivePower_T	R		1W	int16	1
	0x0221	InvReactiveOrApparentPower_R	R		1VA	int16	1
	0x0222	InvReactiveOrApparentPower_S	R		1VA	int16	1
	0x0223	InvReactiveOrApparentPower_T	R		1VA	int16	1
	0x0224	InvCurrent_R	R		0.1A	int16	1
	0x0225	InvCurrent_S	R		0.1A	int16	1
	0x0226	InvCurrent_T	R		0.1A	int16	1
	0x0227	PvPower_ChannelA	R		1W	uint16	1
	0x0228	PvPower_ChannelB	R		1W	uint16	1
	0x0229	PvVoltage_ChannelA	R		0.1V	uint16	1
	0x022A PvVoltage_ChannelB R	slave2 data	0.1V	uint16	1		
	0x022B	PvCurrent_ChannelA	R	Slavez data	0.1A	uint16	1
	0x022C	PvCurrent_ChannelB	R		0.1A	uint6	1
	0x022D	BatPower	R		1VA       int16       1         1VA       int16       1         1VA       int16       1         0.1A       int16       1         0.1A       int16       1         0.1A       int16       1         1W       uint16       1         0.1V       uint16       1         0.1A       uint16       1         0.1A       uint16       1         0.1A       uint16       1         1W       int16       1         1W       int16       1         1VA       int16       1         1VA       int16       1         0.1A       int16       1         0.1A       int16       1         0.1A       int16       1		
	0x022E	BatVoltage	R	1W 0.1V 0.1A 1W	0.1V	uint16	1
0x 0x	0x022F	BatCurrent	R		0.1A	uint16	1
	0x0230	ChargePowerLimit	R		1W	uint16	1
	0x0231	DischargePowerLimit	R		1W	uint16	1
	0x0232	BatFaultMessage	R		1	uint16	1
	0x0233	BatCapacity	R		1%	uint16	1
	0x0234	Rev	R		1	uint32	2
	0x0235	Nev .				antoz	
	0x0236	Rev	R		1	uint32	2
	0x0237		.`			diritoz	
	0x0238	InvActivePower_R	R		1W	int16	1
	0x0239	InvActivePower_S	R		1W		1
0x023A InvActivePower_T 0x023B InvReactiveOrApparentPower_R	R				1		
		R				1	
	0x023C	23C InvReactiveOrApparentPower_S R 23D InvReactiveOrApparentPower_T R					
	0x023D						
	0x023E	InvCurrent_R	R	—			
	0x023F	InvCurrent_S	R				
	0x0240         InvCurrent_T         R           0x0241         PvPower_ChannelA         R						
		PvPower_ChannelA	R		1W	uint16	1



Dx0242								
DX0244		0x0242	PvPower_ChannelB	R		1W	uint16	1
Dx0245		0x0243	PvVoltage_ChannelA	R		0.1V	uint16	1
Dx0246	ľ	0x0244	PvVoltage_ChannelB	R		0.1V	uint16	1
Dx0247		0x0245	PvCurrent_ChannelA	R		0.1A	uint16	1
Dx0248	·	0x0246	PvCurrent_ChannelB	R		0.1A	uint16	1
DX0249   BatCurrent   R   DX024A   ChargePowerLimit   R   R   DischargePowerLimit   R   R   DischargePowerLimit   R   DX024C   BatFaultMessage   R   DischargePowerLimit   R   DX024D   BatCapacity   R   DX024E   Rev   R   Rev   R   DX025D   Rev   R   DX0250   Rev   R   DX0250   Rev   R   DX0251   Rev   R   DX0252   InvActivePower_R   R   DX0253   InvActivePower_S   R   DX0254   InvActivePower_T   R   DX0255   InvReactiveOrApparentPower_R   R   DX0256   InvReactiveOrApparentPower_R   R   DX0256   InvReactiveOrApparentPower_T   R   DX0256   InvReactiveOrApparentPower_T   R   DX0258   InvReactiveOrApparentPower_T   R   DX0259   InvCurrent_R   R   DX0259   InvCurrent_R   R   DX0256   InvCurrent_R   R   DX0256   InvCurrent_T   R   DX0256   InvCurrent_T   R   DX0256   Dx02056   Dx		0x0247	BatPower	R		1W	uint16	1
0x024A         ChargePowerLimit         R           0x024B         DischargePowerLimit         R           0x024C         BatFaultMessage         R           0x024D         BatCapacity         R           0x024E         Rev         R           0x0250         Rev         R           0x0251         Rev         R           0x0252         InvActivePower_R         R           0x0253         InvActivePower_R         R           0x0254         InvActivePower_T         R           0x0255         InvReactiveOrApparentPower_R         R           0x0256         InvReactiveOrApparentPower_R         R           0x0255         InvReactiveOrApparentPower_R         R           0x0256         InvReactiveOrApparentPower_T         R           0x0257         InvReactiveOrApparentPower_T         R           0x0258         InvCurrent_R         R           0x0259         InvCurrent_R         R           0x0259         InvCurrent_R         R           0x0250         PvPower_ChannelB         R           0x0251         PvPower_ChannelB         R           0x0252         PvVoltage_ChannelB         R <th< th=""><th></th><th>0x0248</th><th>BatVoltage</th><th>R</th><th></th><th>0.1V</th><th>uint16</th><th>1</th></th<>		0x0248	BatVoltage	R		0.1V	uint16	1
0x024B         DischargePowerLimit         R           0x024C         BatFaultMessage         R           0x024D         BatCapacity         R           0x024E         Rev         R           0x025F         Rev         R           0x0250         Rev         R           0x0251         Rev         R           0x0252         InvActivePower_R         R           0x0253         InvActivePower_S         R           0x0254         InvActivePower_T         R           0x0255         InvReactiveOrApparentPower_R         R           0x0256         InvReactiveOrApparentPower_S         R           0x0257         InvReactiveOrApparentPower_T         R           0x0258         InvCurrent_R         R           0x0259         InvCurrent_T         R           0x0259         InvCurrent_T         R           0x0259         InvCurrent_T         R           0x0259         PvPower_ChannelA         R           0x0250         PvPower_ChannelB         R           0x0251         PvVottage_ChannelB         R           0x0252         PvVottage_ChannelB         R           0x0255         PvCurrent_Chan		0x0249	BatCurrent	R		0.1A	uint16	1
0x024C         BatFaultMessage         R           0x024B         BatCapacity         R           0x024F         Rev         R           0x0250         Rev         R           0x0251         Rev         R           0x0252         InvActivePower_R         R           0x0253         InvActivePower_S         R           0x0254         InvActivePower_T         R           0x0255         InvReactiveOrApparentPower_R         R           0x0256         InvReactiveOrApparentPower_S         R           0x0257         InvReactiveOrApparentPower_T         R           0x0258         InvCurrent_R         R           0x0259         InvCurrent_R         R           0x0259         InvCurrent_R         R           0x025A         InvCurrent_R         R           0x025B         InvCurrent_R         R           0x025B         InvCurrent_R         R           0x025B         InvCurrent_R         R           0x025B         PvPower_ChannelB         R           0x025C         PyPower_ChannelB         R           0x025D         PvOoltage_ChannelB         R           0x025E         PvCurrent_ChannelB		0x024A	ChargePowerLimit	R		1W	uint16	1
0x024b         BatCapacity         R           0x024F         Rev         R           0x0250         Rev         R           0x0251         Rev         R           0x0252         InvActivePower_R         R           0x0253         InvActivePower_S         R           0x0254         InvActivePower_T         R           0x0255         InvReactiveOrApparentPower_R         R           0x0256         InvReactiveOrApparentPower_S         R           0x0257         InvReactiveOrApparentPower_T         R           0x0258         InvCurrent_R         R           0x0259         InvCurrent_S         R           0x0259         InvCurrent_T         R           0x025A         InvCurrent_T         R           0x025B         PvPower_ChannelA         R           0x025B         PvPower_ChannelA         R           0x025C         PvPower_ChannelB         R           0x025D         PvVoltage_ChannelA         R           0x025F         PvCurrent_ChannelB         R           0x026D         PvCurrent_ChannelB         R           0x0261         BatPower         R           0x0262         BatVoltag		0x024B	DischargePowerLimit	R		1W	uint16	1
Dx024E		0x024C	BatFaultMessage	R		1	uint16	1
Nove   Rev   Rev		0x024D	BatCapacity	R		1%	uint16	1
0x024F         0x0250         Rev         R         1         uint32         2           0x0251         Rev         R         1         uint32         2           0x0252         InvActivePower_R         R         1W int16         1           0x0253         InvActivePower_S         R         1W int16         1           0x0254         InvReactiveOrApparentPower_R         R         1VA int16         1           0x0255         InvReactiveOrApparentPower_R         R         1VA int16         1           0x0256         InvReactiveOrApparentPower_T         R         1VA int16         1           0x0257         InvReactiveOrApparentPower_T         R         1VA int16         1           0x0258         InvCurrent_R         R         0.1A int16         1           0x0259         InvCurrent_T         R         0.1A int16         1           0x025B         PvPower_ChannelA         R         1W uint16         1           0x025B         PvPower_ChannelB         R         1W uint16         1           0x025C         PvPower_ChannelB         R         0.1V uint16         1           0x025E         PvVoltage_ChannelB         R         0.1A uint16         <		0x024E	Pov	D		1	uint32	2
Nove   Rev   R		0x024F	Nev	IX			unitoz	۷
0x0251         0x0252         InvActivePower_R         R           0x0253         InvActivePower_S         R           0x0254         InvActivePower_T         R           0x0255         InvReactiveOrApparentPower_R         R           0x0256         InvReactiveOrApparentPower_S         R           0x0257         InvReactiveOrApparentPower_T         R           0x0258         InvCurrent_R         R           0x0259         InvCurrent_S         R           0x0259         InvCurrent_T         R           0x025A         InvCurrent_T         R           0x025B         PvPower_ChannelA         R           0x025B         PvPower_ChannelB         R           0x025C         PvPower_ChannelB         R           0x025D         PvVoltage_ChannelA         R           0x025E         PvVoltage_ChannelB         R           0x025F         PvCurrent_ChannelA         R           0x0260         PvCurrent_ChannelB         R           0x0261         BatPower         R           0x0262         BatVoltage         R           0x0263         BatCurrent         R           0x0264         ChargePowerLimit         R </th <th></th> <th>0x0250</th> <th>Rev</th> <th>R</th> <th>1</th> <th>uint32</th> <th>2</th>		0x0250	Rev	R		1	uint32	2
0x0253         InvActivePower_S         R           0x0254         InvActivePower_T         R           0x0255         InvReactiveOrApparentPower_R         R           0x0256         InvReactiveOrApparentPower_S         R           0x0257         InvReactiveOrApparentPower_T         R           0x0258         InvCurrent_R         R           0x0259         InvCurrent_S         R           0x0254         InvCurrent_T         R           0x0258         PvPower_ChannelA         R           0x025B         PvPower_ChannelA         R           0x025C         PvPower_ChannelB         R           0x025D         PvVoltage_ChannelA         R           0x025E         PvVoltage_ChannelB         R           0x025F         PvCurrent_ChannelA         R           0x0260         PvCurrent_ChannelB         R           0x0261         BatPower         R           0x0262         BatVoltage         R           0x0263         BatCurrent         R           0x0264         ChargePowerLimit         R           1W         uint16         1           1W         uint16         1           1W         uin		0x0251	Nev	- 1			diritoz	
0x0254         InvActivePower_T         R           0x0255         InvReactiveOrApparentPower_R         R           0x0256         InvReactiveOrApparentPower_S         R           0x0257         InvReactiveOrApparentPower_T         R           0x0258         InvCurrent_R         R           0x0259         InvCurrent_S         R           0x025A         InvCurrent_T         R           0x025B         PvPower_ChannelA         R           0x025C         PvPower_ChannelB         R           0x025D         PvVoltage_ChannelA         R           0x025E         PvVoltage_ChannelB         R           0x025F         PvCurrent_ChannelA         R           0x0260         PvCurrent_ChannelB         R           0x0261         BatPower         R           0x0262         BatVoltage         R           0x0263         BatCurrent         R           0x0264         ChargePowerLimit         R           1W uint16         1           1V uint16         1		0x0252	InvActivePower_R	R		1W	int16	1
0x0255         InvReactiveOrApparentPower_R         R           0x0256         InvReactiveOrApparentPower_S         R           0x0257         InvReactiveOrApparentPower_T         R           0x0258         InvCurrent_R         R           0x0259         InvCurrent_S         R           0x025A         InvCurrent_T         R           0x025B         PvPower_ChannelA         R           0x025C         PvPower_ChannelB         R           0x025D         PvVoltage_ChannelA         R           0x025E         PvVoltage_ChannelB         R           0x025F         PvCurrent_ChannelA         R           0x0260         PvCurrent_ChannelB         R           0x0261         BatPower         R           0x0262         BatVoltage         R           0x0263         BatCurrent         R           0x0264         ChargePowerLimit         R		0x0253	InvActivePower_S	R		1W	int16	1
0x0256         InvReactiveOrApparentPower_S         R           0x0257         InvReactiveOrApparentPower_T         R           0x0258         InvCurrent_R         R           0x0259         InvCurrent_S         R           0x025A         InvCurrent_T         R           0x025B         PvPower_ChannelA         R           0x025C         PvPower_ChannelB         R           0x025D         PvVoltage_ChannelA         R           0x025F         PvCurrent_ChannelB         R           0x0260         PvCurrent_ChannelB         R           0x0261         BatPower         R           0x0262         BatVoltage         R           0x0263         BatCurrent         R           0x0264         ChargePowerLimit         R		0x0254	InvActivePower_T	R		1W	int16	1
0x0257         InvReactiveOrApparentPower_T         R           0x0258         InvCurrent_R         R           0x0259         InvCurrent_S         R           0x025A         InvCurrent_T         R           0x025B         PvPower_ChannelA         R           0x025C         PvPower_ChannelB         R           0x025D         PvVoltage_ChannelA         R           0x025E         PvVoltage_ChannelB         R           0x025F         PvCurrent_ChannelA         R           0x0260         PvCurrent_ChannelB         R           0x0261         BatPower         R           0x0262         BatVoltage         R           0x0263         BatCurrent         R           0x0264         ChargePowerLimit         R           1W uint16         1           1W uint16         1 <th></th> <th>0x0255</th> <th>InvReactiveOrApparentPower_R</th> <th>R</th> <th></th> <th>1VA</th> <th>int16</th> <th>1</th>		0x0255	InvReactiveOrApparentPower_R	R		1VA	int16	1
0x0258         InvCurrent_R         R           0x0259         InvCurrent_S         R           0x025A         InvCurrent_T         R           0x025B         PvPower_ChannelA         R           0x025C         PvPower_ChannelB         R           0x025D         PvVoltage_ChannelA         R           0x025E         PvVoltage_ChannelB         R           0x025F         PvCurrent_ChannelA         R           0x0260         PvCurrent_ChannelB         R           0x0261         BatPower         R           0x0262         BatVoltage         R           0x0263         BatCurrent         R           0x0264         ChargePowerLimit         R		0x0256	InvReactiveOrApparentPower_S	R		1VA	int16	1
0x0259         InvCurrent_S         R           0x025A         InvCurrent_T         R           0x025B         PvPower_ChannelA         R           0x025C         PvPower_ChannelB         R           0x025D         PvVoltage_ChannelA         R           0x025E         PvVoltage_ChannelB         R           0x025F         PvCurrent_ChannelA         R           0x0260         PvCurrent_ChannelB         R           0x0261         BatPower         R           0x0262         BatVoltage         R           0x0263         BatCurrent         R           0x0264         ChargePowerLimit         R           0x0264         InvCurrent_S         R           0x1A         int16         1		0x0257	InvReactiveOrApparentPower_T	R		1VA	int16	1
0x025A         InvCurrent_T         R           0x025B         PvPower_ChannelA         R           0x025C         PvPower_ChannelB         R           0x025D         PvVoltage_ChannelA         R           0x025E         PvVoltage_ChannelB         R           0x025F         PvCurrent_ChannelA         R           0x0260         PvCurrent_ChannelB         R           0x0261         BatPower         R           0x0262         BatVoltage         R           0x0263         BatCurrent         R           0x0264         ChargePowerLimit         R		0x0258	InvCurrent_R	R		0.1A	int16	1
0x025B         PvPower_ChannelA         R           0x025C         PvPower_ChannelB         R           0x025D         PvVoltage_ChannelA         R           0x025E         PvVoltage_ChannelB         R           0x025F         PvCurrent_ChannelA         R           0x0260         PvCurrent_ChannelB         R           0x0261         BatPower         R           0x0262         BatVoltage         R           0x0263         BatCurrent         R           0x0264         ChargePowerLimit         R		0x0259	InvCurrent_S	R		0.1A	int16	1
0x025C         PvPower_ChannelB         R           0x025D         PvVoltage_ChannelA         R           0x025E         PvVoltage_ChannelB         R           0x025F         PvCurrent_ChannelA         R           0x0260         PvCurrent_ChannelB         R           0x0261         BatPower         R           0x0262         BatVoltage         R           0x0263         BatCurrent         R           0x0264         ChargePowerLimit         R           1W uint16         1		0x025A	InvCurrent_T	R		0.1A	int16	1
0x025C         PvPower_ChannelB         R           0x025D         PvVoltage_ChannelA         R           0x025E         PvVoltage_ChannelB         R           0x025F         PvCurrent_ChannelA         R           0x0260         PvCurrent_ChannelB         R           0x0261         BatPower         R           0x0262         BatVoltage         R           0x0263         BatCurrent         R           0x0264         ChargePowerLimit         R           1W         uint16         1           1W         uint16         1           1D         Uin		0x025B	PvPower_ChannelA	R	slave4 data	1W	uint16	1
0x025E         PvVoltage_ChannelB         R           0x025F         PvCurrent_ChannelA         R           0x0260         PvCurrent_ChannelB         R           0x0261         BatPower         R           0x0262         BatVoltage         R           0x0263         BatCurrent         R           0x0264         ChargePowerLimit         R           1W uint16         1           1W uint16         1           1W uint16         1		0x025C	PvPower_ChannelB	R	siave i data	1W	uint16	1
0x025F         PvCurrent_ChannelA         R         0.1A uint16         1           0x0260         PvCurrent_ChannelB         R         0.1A uint16         1           0x0261         BatPower         R         1W uint16         1           0x0262         BatVoltage         R         0.1V uint16         1           0x0263         BatCurrent         R         0.1A uint16         1           0x0264         ChargePowerLimit         R         1W uint16         1		0x025D	PvVoltage_ChannelA	R		0.1V	uint16	1
0x0260         PvCurrent_ChannelB         R         0.1A uint16 1           0x0261         BatPower         R         1W uint16 1           0x0262         BatVoltage         R         0.1V uint16 1           0x0263         BatCurrent         R         0.1A uint16 1           0x0264         ChargePowerLimit         R         1W uint16 1		0x025E	PvVoltage_ChannelB	R		0.1V	uint16	1
0x0261         BatPower         R         1W uint16         1           0x0262         BatVoltage         R         0.1V uint16         1           0x0263         BatCurrent         R         0.1A uint16         1           0x0264         ChargePowerLimit         R         1W uint16         1		0x025F	PvCurrent_ChannelA	R	R R R R	0.1A	uint16	1
0x0262         BatVoltage         R         0.1V uint16         1           0x0263         BatCurrent         R         0.1A uint16         1           0x0264         ChargePowerLimit         R         1W uint16         1		0x0260	PvCurrent_ChannelB	R		0.1A	uint16	1
0x0263         BatCurrent         R         0.1A         uint16         1           0x0264         ChargePowerLimit         R         1W         uint16         1		0x0261	BatPower	R		1W	uint16	1
0x0264ChargePowerLimitR1Wuint161		0x0262	BatVoltage	R		0.1V		1
		0x0263	BatCurrent	R		0.1A	uint16	1
0x0265DischargePowerLimitR1Wuint161		0x0264	ChargePowerLimit			1W		1
		0x0265	DischargePowerLimit	R		1W	uint16	1



Dx0267   BatCapacity   R   Dx0268   Rev   R   Rev   R   Dx0269   Rev   R   Dx0268   Rev   R   Dx0268   Rev   R   Dx0266   Rev   R   Dx0266   Rev   R   Dx0266   InvActivePower_R   R   Dx0266   InvActivePower_S   R   Dx0266   InvActivePower_S   R   Dx0266   InvActivePower_S   R   Dx0266   InvActivePower_S   R   Dx0266   InvActivePower_T   R   Dx0266   InvActivePower_T   R   Dx0270   InvReactiveOrApparentPower_S   R   Dx0271   InvReactiveOrApparentPower_T   R   Dx0271   InvReactiveOrApparentPower_T   R   Dx0272   InvCurrent_R   R   Dx0273   InvCurrent_S   R   Dx0274   InvCurrent_T   R   Dx0274   InvCurrent_T   R   Dx0275   PvPower_ChannelA   R   Dx0276   PvPower_ChannelB   R   Dx0276   PvPower_ChannelB   R   Dx0277   PvVoltage_ChannelB   R   Dx0277   PvVoltage_ChannelA   R   Dx0278   PvVoutage_ChannelB   R   Dx0279   PvCurrent_ChannelB   R   Dx0279   PvCurrent_ChannelB   R   Dx0279   PvCurrent_ChannelB   R   Dx0279   PvCurrent_ChannelB   R   Dx0279   BatPower   R   Dx0270   BatPower   R   Dx0270   BatCurrent   R   Dx0270   BatCurrent   R   Dx0270   BatCurrent   R   Dx0276   DischargePowerLimit   R   Dx0280   BatFallMessage   R   Dx0280   BatFallMessage   R   Dx0280   BatFallMessage   R   Dx0280   BatFallMessage   R   Dx0280   Dx0280   BatFallMessage   R   Dx0280   Dx0280   Dx0280   Dx0280   Rev   R   Dx0280   Dx0280   Dx0280   Rev   R   Dx0280   Dx0							_
Dx0268	0x0266	BatFaultMessage	R		1	uint16	1
Dx0269	0x0267	BatCapacity	R		1%	uint16	1
0x0269	0x0268	Pov	D		1	uint22	2
0x026B         Rev         R           0x026C         InvActivePower_R         R           0x026D         InvActivePower_S         R           0x026E         InvActivePower_T         R           0x026E         InvActivePower_T         R           0x0276         InvReactiveOrApparentPower_R         R           0x0271         InvReactiveOrApparentPower_T         R           0x0272         InvReactiveOrApparentPower_T         R           0x0273         InvCurrent_R         R           0x0274         InvCurrent_T         R           0x0275         PvPower_ChannelA         R           0x0276         PvPower_ChannelB         R           0x0277         PvVoltage_ChannelA         R           0x0277         PvVoltage_ChannelB         R           0x0278         PvVoltage_ChannelA         R           0x0279         PvCurrent_ChannelA         R           0x0279         PvCurrent_ChannelB         R           0x0270         BatPower         R           0x0271         BatCurrent         R           0x0272         BatCurrent         R           0x0273         BatCurrent         R           0x0274 </th <th>0x0269</th> <th>KEV</th> <th>K</th> <th></th> <th></th> <th>uiiitsz</th> <th>۷</th>	0x0269	KEV	K			uiiitsz	۷
0x026B         InvActivePower R         R           0x026C         InvActivePower_S         R           0x026B         InvActivePower_T         R           0x026E         InvActivePower_T         R           0x026F         InvReactiveOrApparentPower_R         R           0x0270         InvReactiveOrApparentPower_S         R           0x0271         InvReactiveOrApparentPower_T         R           0x0272         InvCurrent_R         R           0x0273         InvCurrent_S         R           0x0274         InvCurrent_T         R           0x0275         PvPower_ChannelA         R           0x0276         PvPower_ChannelB         R           0x0277         PvVoltage_ChannelA         R           0x0278         PvVoltage_ChannelB         R           0x0279         PvCurrent_ChannelB         R           0x0279         PvCurrent_ChannelB         R           0x0270         BatPower         R           0x0271         BatCurrent         R           0x0272         BatCurrent         R           0x0273         BatCurrent         R           0x0274         BatCurrent         R           0x0275<	0x026A	Ray	D		1	uint32	2
1	0x026B	Nev	IX			uiiit32	۷
Dx026E	0x026C	InvActivePower_R	R		1W	int16	1
Dx026F	0x026D	InvActivePower_S	R		1W	int16	1
0x0270         InvReactiveOrApparentPower S         R           0x0271         InvReactiveOrApparentPower_T         R           0x0272         InvCurrent_R         R           0x0273         InvCurrent_S         R           0x0274         InvCurrent_T         R           0x0275         PvPower_ChannelA         R           0x0276         PvPower_ChannelB         R           0x0277         PvVoltage_ChannelA         R           0x0278         PvVoltage_ChannelB         R           0x0279         PvCurrent_ChannelB         R           0x0279         PvCurrent_ChannelB         R           0x0270         BatPower         R           0x0271         BatPower         R           0x0272         PvCurrent_ChannelB         R           0x0273         BatPower         R           0x0274         PvCurrent_ChannelB         R           0x0275         BatCurrent_ChannelB         R           0x0276         BatCurrent_ChannelB         R           0x0277         BatCurrent         R           0x0278         BatCurrent         R           0x0279         BatCangePowerLimit         R           0x0280	0x026E	InvActivePower_T	R		1W	int16	1
0x0271         InvReactiveOrApparentPower_T         R           0x0272         InvCurrent_R         R           0x0273         InvCurrent_S         R           0x0274         InvCurrent_T         R           0x0275         PvPower_ChannelA         R           0x0276         PvPower_ChannelB         R           0x0277         PvVoltage_ChannelA         R           0x0278         PvVoltage_ChannelB         R           0x0279         PvCurrent_ChannelA         R           0x027A         PvCurrent_ChannelB         R           0x027B         BatPower         R           0x027C         BatVoltage         R           0x027D         BatCurrent         R           0x027E         ChargePowerLimit         R           0x027F         DischargePowerLimit         R           0x0280         BatFaultMessage         R           0x0281         BatCapacity         R           0x0282         Rev         R           0x0283         Rev         R           0x0284         Rev         R           0x0285         InvActivePower_R         R           0x0286         InvActivePower_S         R </th <th>0x026F</th> <th>InvReactiveOrApparentPower_R</th> <th>R</th> <th></th> <th>1VA</th> <th>int16</th> <th>1</th>	0x026F	InvReactiveOrApparentPower_R	R		1VA	int16	1
Dx0272	0x0270	InvReactiveOrApparentPower_S	R		1VA	int16	1
Note	0x0271	InvReactiveOrApparentPower_T	R		1VA	int16	1
Dx0274	0x0272	InvCurrent_R	R		0.1A	int16	1
0x0275         PvPower_ChannelA         R           0x0276         PvPower_ChannelB         R           0x0277         PvVoltage_ChannelA         R           0x0278         PvVoltage_ChannelB         R           0x0279         PvCurrent_ChannelA         R           0x027A         PvCurrent_ChannelB         R           0x027B         BatPower         R           0x027C         BatVoltage         R           0x027D         BatCurrent         R           0x027E         ChargePowerLimit         R           0x027F         DischargePowerLimit         R           0x0280         BatFaultMessage         R           0x0281         BatCapacity         R           0x0282         Rev         R           0x0283         Rev         R           0x0284         Rev         R           0x0285         InvActivePower_R         R           0x0286         InvActivePower_S         R           0x0287         InvActivePower_T         R           0x0288         InvActivePower_T         R	0x0273	InvCurrent_S	R		0.1A	int16	1
0x0276         PvPower_ChannelB         R           0x0277         PvVoltage_ChannelA         R           0x0278         PvVoltage_ChannelB         R           0x0279         PvCurrent_ChannelA         R           0x027A         PvCurrent_ChannelB         R           0x027B         BatPower         R           0x027C         BatVoltage         R           0x027D         BatCurrent         R           0x027E         ChargePowerLimit         R           0x027F         DischargePowerLimit         R           0x0280         BatFaultMessage         R           0x0281         BatCapacity         R           0x0282         Rev         R           0x0283         Rev         R           0x0284         Rev         R           0x0285         InvActivePower_R         R           0x0286         InvActivePower_S         R           0x0287         InvActivePower_S         R           0x0288         InvActivePower_T         R	0x0274	InvCurrent_T	R		0.1A	int16	1
0x0277         PvVoltage_ChannelA         R           0x0278         PvVoltage_ChannelB         R           0x0279         PvCurrent_ChannelA         R           0x027A         PvCurrent_ChannelB         R           0x027B         BatPower         R           0x027C         BatVoltage         R           0x027D         BatCurrent         R           0x027E         ChargePowerLimit         R           0x027F         DischargePowerLimit         R           0x0280         BatFaultMessage         R           0x0281         BatCapacity         R           0x0282         Rev         R           0x0283         Rev         R           0x0284         Rev         R           0x0285         InvActivePower_R         R           0x0286         InvActivePower_S         R           0x0287         InvActivePower_S         R           0x0288         InvActivePower_T         R           0x0288         InvActivePower_T         R	0x0275	PvPower_ChannelA	R		1W	uint16	1
0x0278         PvVoltage_ChannelB         R           0x0279         PvCurrent_ChannelA         R           0x027A         PvCurrent_ChannelB         R           0x027B         BatPower         R           0x027C         BatVoltage         R           0x027D         BatCurrent         R           0x027E         ChargePowerLimit         R           0x027F         DischargePowerLimit         R           0x0280         BatFaultMessage         R           0x0281         BatCapacity         R           0x0282         Rev         R           0x0284         Rev         R           0x0285         Rev         R           0x0286         InvActivePower_R         R           0x0287         InvActivePower_S         R           0x0288         InvActivePower_T         R           0x0288         InvActivePower_T         R	0x0276	PvPower_ChannelB	R		1W	uint16	1
0x0279         PvCurrent_ChannelA         R           0x027A         PvCurrent_ChannelB         R           0x027B         BatPower         R           0x027C         BatVoltage         R           0x027D         BatCurrent         R           0x027E         ChargePowerLimit         R           0x027F         DischargePowerLimit         R           0x0280         BatFaultMessage         R           0x0281         BatCapacity         R           0x0282         Rev         R           0x0283         Rev         R           0x0284         Rev         R           0x0285         InvActivePower_R         R           0x0286         InvActivePower_S         R           0x0287         InvActivePower_S         R           0x0288         InvActivePower_T         R	0x0277	PvVoltage_ChannelA	R	†	0.1V	uint16	1
0x0279         PvCurrent_ChannelA         R         0.1A uint16         1           0x027A         PvCurrent_ChannelB         R         0.1A uint16         1           0x027B         BatPower         R         1W uint16         1           0x027C         BatVoltage         R         0.1V uint16         1           0x027D         BatCurrent         R         0.1A uint16         1           0x027E         ChargePowerLimit         R         1W uint16         1           0x028D         BatFaultMessage         R         1 uint16         1           0x0281         BatCapacity         R         1 uint16         1           0x0282         Rev         R         1 uint32         2           0x0283         Rev         R         1 uint32         2           0x0284         Rev         R         1 uint32         2           0x0285         InvActivePower_R         R         1W int16         1           0x0287         InvActivePower_S         R         1W int16         1           0x0288         InvActivePower_T         R         1W int16         1	0x0278	PvVoltage_ChannelB	R		0.1V	uint16	1
0x027B         BatPower         R           0x027C         BatVoltage         R           0x027D         BatCurrent         R           0x027E         ChargePowerLimit         R           0x027F         DischargePowerLimit         R           0x0280         BatFaultMessage         R           0x0281         BatCapacity         R           0x0282         Rev         R           0x0283         Rev         R           0x0284         Rev         R           0x0285         InvActivePower_R         R           0x0286         InvActivePower_R         R           0x0287         InvActivePower_S         R           0x0288         InvActivePower_T         R           0x0288         InvActivePower_T         R           1w int16         1w int16           1w int16         1w int16           1w int16         1w int16	0x0279	PvCurrent_ChannelA	R	siaves data	0.1A	uint16	1
0x027C         BatVoltage         R           0x027D         BatCurrent         R           0x027E         ChargePowerLimit         R           0x027F         DischargePowerLimit         R           0x0280         BatFaultMessage         R           0x0281         BatCapacity         R           0x0282         Rev         R           0x0283         Rev         R           0x0284         Rev         R           0x0285         InvActivePower_R         R           0x0286         InvActivePower_S         R           0x0287         InvActivePower_S         R           0x0288         InvActivePower_T         R	0x027A	PvCurrent_ChannelB	R		0.1A	uint16	1
0x027D         BatCurrent         R           0x027E         ChargePowerLimit         R           0x027F         DischargePowerLimit         R           0x0280         BatFaultMessage         R           0x0281         BatCapacity         R           0x0282         Rev         R           0x0283         Rev         R           0x0284         Rev         R           0x0285         InvActivePower_R         R           0x0286         InvActivePower_R         R           0x0287         InvActivePower_S         R           0x0288         InvActivePower_T         R           0x0288         InvActivePower_T         R           0x0288         InvActivePower_T         R	0x027B	BatPower	R		1W	uint16	1
0x027E         ChargePowerLimit         R           0x027F         DischargePowerLimit         R           0x0280         BatFaultMessage         R           0x0281         BatCapacity         R           0x0282         Rev         R           0x0283         Rev         R           0x0284         Rev         R           0x0285         InvActivePower_R         R           0x0286         InvActivePower_S         R           0x0287         InvActivePower_S         R           0x0288         InvActivePower_T         R           0x0288         InvActivePower_T         R           1w int16         1	0x027C	BatVoltage	R		0.1V	uint16	1
0x027F         DischargePowerLimit         R           0x0280         BatFaultMessage         R           0x0281         BatCapacity         R           0x0282         Rev         R           0x0283         Rev         R           0x0284         Rev         R           0x0285         InvActivePower_R         R           0x0286         InvActivePower_S         R           0x0287         InvActivePower_S         R           0x0288         InvActivePower_T         R           1w int16         1	0x027D	BatCurrent	R		0.1A	uint16	1
0x0280         BatFaultMessage         R           0x0281         BatCapacity         R           0x0282         Rev         R           0x0283         Rev         R           0x0284         Rev         R           0x0285         InvActivePower_R         R           0x0286         InvActivePower_S         R           0x0287         InvActivePower_S         R           0x0288         InvActivePower_T         R           slave6 data         1W int16         1           1W int16         1	0x027E	ChargePowerLimit	R		1W	uint16	1
0x0281         BatCapacity         R         1% uint16         1           0x0282         Rev         R         1 uint32         2           0x0283         Rev         R         1 uint32         2           0x0284         Rev         R         1 uint32         2           0x0285         InvActivePower_R         R         1W int16         1           0x0287         InvActivePower_S         R         slave6 data         1W int16         1           0x0288         InvActivePower_T         R         slave6 data         1W int16         1	0x027F	DischargePowerLimit	R		1W	uint16	1
0x0282         Rev         R         1         uint32         2           0x0284         Rev         R         1         uint32         2           0x0285         InvActivePower_R         R         1W         int16         1           0x0286         InvActivePower_S         R         1W         int16         1           0x0287         InvActivePower_T         R         slave6 data         1W         int16         1           0x0288         InvActivePower_T         R         slave6 data         1W         int16         1	0x0280	BatFaultMessage	R		1	uint16	1
0x0283         Rev         R         1         uint32         2           0x0284         Rev         R         1         uint32         2           0x0285         InvActivePower_R         R         1W         int16         1           0x0287         InvActivePower_S         R         slave6 data         1W         int16         1           0x0288         InvActivePower_T         R         slave6 data         1W         int16         1	0x0281	BatCapacity	R		1%	uint16	1
0x0283         Rev         R         1         uint32         2           0x0285         InvActivePower_R         R         1         uint32         2           0x0286         InvActivePower_R         R         1W         int16         1           0x0287         InvActivePower_S         R         slave6 data         1W         int16         1           0x0288         InvActivePower_T         R         slave6 data         1W         int16         1	0x0282	Rev	R		1	uint32	2
0x0285         Rev         R         1         uint32         2           0x0286         InvActivePower_R         R         1W         int16         1           0x0287         InvActivePower_S         R         slave6 data         1W         int16         1           0x0288         InvActivePower_T         R         slave6 data         1W         int16         1	0x0283	Rev				unitoz	۷
0x0285         InvActivePower_R         R         1W int16         1           0x0287         InvActivePower_S         R         1W int16         1           0x0288         InvActivePower_T         R         slave6 data         1W int16         1	0x0284	R		1	uint32	2	
0x0287         InvActivePower_S         R           0x0288         InvActivePower_T         R           slave6 data         1W         int16         1           1W         int16         1	0x0285	Nev				unitoz	۷
0x0288   InvActivePower_T   R     slave6 data     1W   int16   1	0x0286	InvActivePower_R	R		1W	int16	1
0x0288InvActivePower_TR1Wint161		InvActivePower_S	R	slave6 data	1W	int16	1
Ox0289 InvReactiveOrApparentPower R R R 1VA int16 1	0x0288	0288 InvActivePower_T R	1W	int16	1		
1777 11120 1	0x0289	InvReactiveOrApparentPower_R	R		1VA	int16	1



		POWER	1				1
	0x028A	InvReactiveOrApparentPower_S	R		1VA	int16	1
	0x028B	InvReactiveOrApparentPower_T	R		1VA	int16	1
	0x028C	InvCurrent_R	R		0.1A	int16	1
	0x028D	InvCurrent_S	R		0.1A	int16	1
	0x028E	InvCurrent_T	R		0.1A	int16	1
	0x028F	PvPower_ChannelA	R		1W	uint16	1
	0x0290	PvPower_ChannelB	R		1W	uint16	1
	0x0291	PvVoltage_ChannelA	R		0.1V	uint16	1
	0x0292	PvVoltage_ChannelB	R		0.1V	uint16	1
	0x0293	PvCurrent_ChannelA	R		0.1A	uint16	1
	0x0294	PvCurrent_ChannelB	R		0.1A	uint16	1
	0x0295	BatPower	R		1W	uint16	1
	0x0296	BatVoltage	R		0.1V	uint16	1
	0x0297	BatCurrent	R		0.1A	uint16	1
	0x0298	ChargePowerLimit	R		1W	uint16	1
	0x0299	DischargePowerLimit	R		1W	uint16	1
	0x029A	BatFaultMessage	R		1	uint16	1
Ī	0x029B	BatCapacity	R		1%	uint16	1
	0x029C	Rev	D		1	uint32	2
	0x029D	KUV	R		1	uiiitoz	
	0x029E	Davi	R		1	uint32	2
	0x029F	Rev	K		1	ullitaz	2
	0x02A0	InvActivePower_R	R		1W	int16	1
	0x02A1	InvActivePower_S	R		1W	int16	1
	0x02A2	InvActivePower_T	R		1W	int16	1
	0x02A3	InvReactiveOrApparentPower_R	R		1VA	int16	1
	0x02A4	InvReactiveOrApparentPower_S	R		1VA	int16	1
	0x02A5	InvReactiveOrApparentPower_T	R		1VA	int16	1
	0x02A6	InvCurrent_R	R	alaya 7 data	0.1A	int16	1
	0x02A7	InvCurrent_S	R	slave7 data	0.1A	int16	1
	0x02A8	InvCurrent_T	R		0.1A	int16	1
	0x02A9	PvPower_ChannelA	R		1W	uint16	1
	0x02AA	PvPower_ChannelB	R		1W	uint16	1
	0x02AB	PvVoltage_ChannelA	R		0.1V	uint16	1
	0x02AC	PvVoltage_ChannelB	R		0.1V	uint16	1
	0x02AD	PvCurrent_ChannelA	R		0.1A	uint16	1



	0x02AE	PvCurrent_ChannelB	R		0.1A	uint16	1
Ļ	0x02AF	BatPower	R		1W	uint16	1
Ļ	0x02B0	BatVoltage	R		0.1V	uint16	1
	0x02B1	BatCurrent	R		0.1A	uint16	1
	0x02B2	ChargePowerLimit	R		1W	uint16	1
	0x02B3	DischargePowerLimit	R		1W	uint16	1
	0x02B4	BatFaultMessage	R		1	uint16	1
	0x02B5	BatCapacity	R		1%	uint16	1
L	0x02B6	Rev	R		1	uint32	2
	0x02B7	Nev	IX.			unitoz	۷
	0x02B8	Rev	R		1	uint32	2
	0x02B9	Nev	IX		1	unitoz	۷
	0x02BA	InvActivePower_R	R		1W	int16	1
	0x02BB	InvActivePower_S	R		1W	int16	1
	0x02BC	InvActivePower_T	R		1W	int16	1
	0x02BD	InvReactiveOrApparentPower_R	R		1VA	int16	1
	0x02BE	InvReactiveOrApparentPower_S	R		1VA	int16	1
	0x02BF	InvReactiveOrApparentPower_T	R		1VA	int16	1
	0x02C0	InvCurrent_R	R		0.1A	int16	1
	0x02C1	InvCurrent_S	R		0.1A	int16	1
	0x02C2	InvCurrent_T	R		0.1A	int16	1
	0x02C3	PvPower_ChannelA	R		1W	uint16	1
	0x02C4	PvPower_ChannelB	R		1W	uint16	1
	0x02C5	PvVoltage_ChannelA	R	slave8 data	0.1V	uint16	1
	0x02C6	PvVoltage_ChannelB	R	Slaveo Uata	0.1V	uint16	1
	0x02C7	PvCurrent_ChannelA	R		0.1A	uint16	1
	0x02C8	PvCurrent_ChannelB	R		0.1A	uint16	1
	0x02C9	BatPower	R		1W	uint16	1
	0x02CA	BatVoltage	R		0.1V	uint16	1
	0x02CB	BatCurrent	R		0.1A	uint16	1
	0x02CC	ChargePowerLimit	R		1W	uint16	1
	0x02CD	DischargePowerLimit	R		1W	uint16	1
Ī	0x02CE	BatFaultMessage	R	1	1	uint16	1
	0x02CF	BatCapacity	R		1%	uint16	1
	0x02D0	Dov	ר		1	uin+22	2
	0x02D1	Rev	R		1	uint32	2



0x02D2						
0x02D3	Rev	R		1	uint32	2
0x02D4	InvActivePower_R	R		1W	int16	1
0x02D5	InvActivePower_S	R		1W	int16	1
0x02D6	InvActivePower_T	R		1W	int16	1
0x02D7	InvReactiveOrApparentPower_R	R		1VA	int16	1
0x02D8	InvReactiveOrApparentPower_S	R		1VA	int16	1
0x02D9	InvReactiveOrApparentPower_T	R		1VA	int16	1
0x02DA	InvCurrent_R	R		0.1A	int16	1
0x02DB	InvCurrent_S	R		0.1A	int16	1
0x02DC	InvCurrent_T	R		0.1A	int16	1
0x02DD	PvPower_ChannelA	R		1W	uint16	1
0x02DE	PvPower_ChannelB	R		1W	uint16	1
0x02DF	PvVoltage_ChannelA	tage_ChannelA R	0.1V	uint16	1	
0x02E0	PvVoltage_ChannelB		0.1V	uint16	1	
0x02E1	PvCurrent_ChannelA	R	Slaves data	0.1A	uint16	1
0x02E2	PvCurrent_ChannelB	R		0.1A	uint16	1
0x02E3	BatPower	R		1W	uint16	1
0x02E4	BatVoltage	R		0.1V	uint16	1
0x02E5	BatCurrent	R		0.1A	uint16	1
0x02E6	ChargePowerLimit	R		1W	uint16	1
0x02E7	DischargePowerLimit	R		1W	uint16	1
0x02E8	BatFaultMessage	R		1	uint16	1
0x02E9	BatCapacity	city R	1%	uint16	1	
0x02EA	Rev	R		1	uint32	2
0x02EB	KEV	K		1	uiiit32	۷
0x02EC	Rev	R		1	uint32	2
0x02ED	IVEA	IX.			unitoz	_

Function	Write Single Register									
Code	Register	Variable	W/R	Decription	Unit	Data forma				
	0x0000	UnlockPassword	W	UnlockPassword	1	uint16				
	0x0001	POW Reconnection Time	W	(15~600)	1s	uint16				
	0x0002	CheckingTime	W	(15~1000)	1s	uint16				
	0x0003	Adjust_Battery_U	W	(0~3900)	0.1V	uint16				
	0x0004	Adjust_Battery_I	W	Postive mean charge; negative mean discharge. (-350~350)	0.1A	int16				
	0x0005	Vac_Min	W	Vac_Min (230~3000)	0.1V	uint16				
	0x0006	Vac_Max	W	Vac_Max (1000~3120)	0.1V	uint16				
	0x0007	Fac_Min	W	Fac_Min (4000~6500)	0.01Hz	uint16				
	0x0008	Fac_Max	W	Fac_Max (4500~7000)	0.01Hz	uint16				
0X06	0x0009	SafetyCode	W	Safety type 0: VDE0126 1: VDE4105 2: AS 4777_2020_A 3: G98/1 (X1/X3) 4: C10/11 5: TOR(X1/X3) 6: EN50438_NL 7: Denmark2019_W(X3) 8: CEB 9: CEI021 10:NRS097_2_1 11:VDE0126_Gr_ls 12:UTE_C15_712 13:IEC61727(X1/X3) 14:G99/1 15:VDE0126_Gr_Co 16: Guyana 17:C15_712_is_50 18:C15_712_is_50 18:C15_712_is_60 19:New Zealand 20:RD1699 21:Chile(X3) 22:Israel 23:Czech_PPDS_2020 24:RD1699_Island 25:EN50549_Poland		uint16				



			T		_	
				26:EN50438_Portugal		
0:	x000A	MateBoxEnable	W	0: Disable 1:Enable	1	uint16
0	×000B	Grid_10Min_high	W	Grid_10Min_high (1500~3000)	0.1V	uint16
0	×000C	Vac_Min_slow_protect	W	Vac_Min_slow_protect (1500~3000)	0.1V	uint16
0:	x000D	Vac_Max_slow_protect	W	Vac_Max_slow_protect (1000~3120)	0.1V	uint16
0	)×000E	Fac_Min_slow_Protect	W	Fac_Min_slow_Protect (4000~6500)	0.01Hz	uint16
0	)×000F	Fac_Max_slow_Protect	W	Fac_Max_slow_Protect (4500~7000)	0.01Hz	uint16



0x0010	DCI_Limit	W	DCI_Limit (20~1000)	1mA	uint16
0x0011	active_Power_Limit	W	active_Power_Limit (0~100)	0-100	uint16
0x0012	Adjust_Pv1_Current	W	Adjust_Pv1_Current (10~3000)	0.01A	uint16
0x0013	Adjust_Pv2_Current	W	Adjust_Pv2_Current (10~3000)	0.01A	uint16
0x0014	Adjust_Pv1_Volt	W	Adjust_Pv1_Volt (100~10000)	0.1V	uint16
0x0015	Adjust_Pv2_Volt	W	Adjust_Pv2_Volt (100~10000)	0.1V	uint16
0x0016	Adjust_AC_Current_R	W	Adjust_AC_Current_R (10~300)	0.1A	uint16
0x0017	Adjust_AC_Volt_R	W	Adjust_AC_Volt_R (1500~3000)	0.1V	uint16
0x0018 ~0x001A	REV	W	REV	_	uint16
0x001B	MatchResistanceSet	W	0:disable 1:enable	_	uint16
0x001C	SystemON_OFF	W	0:OFF 1:ON	1	uint16
0x001D	FactoryReset	W	1 effect	1	unt16
0x001E	Inverter_Clear_History	W	1 effect	1	uint16
0x001F	Solar Charger Use Mode	W	0:Self use mode 1:Feed-in priority 2:Back up mode 3:Menual mode	_	uint16
0x0020	Manual mode	W	0:Stop force charge&discharge 1:Force charge 2:Force discharge	1	uint16
0x0021	wBattery1_Type	W	0: Lead Acid 1: Lithium	1%	unt16
0x0022	Charge_floatVolt	W	Lead-acid battery charge float voltage (X1:850~4000 X3:1600~6500)	0.1V	uint16
0x0023	Discharge_CutVolt	W	Lead-acid battery discharge cut-off voltage (X1:850~4000 X3:1600~6500)	0.1V	uint16
0x0024	Battery1_ChargeMaxCurrent	W	Lead-acid battery Charge MaxCurrent (0~300)	0.1A	uint16
0x0025	Battery1_DischargeMaxCurrent	W	Lead-acid battery discharge MaxCurrent	0.1A	uint16



	<u> </u>				•	
				(0~300)		
	0x0026	wBatteryDischargeBackupVoltage	W	wBatteryDischargeBackupVoltage (X1:850~4000 X3:1600~6500)	0.1V	uint16
	0x0027	CtType (X3)	R	0:100A 1:200A	_	uint16
	0x0028	EpsDcvAdjEn(X3)		0: Disable 1: Enable	-	uint16
	0x0029	CalibGainInvVoltR(X3)	W	CalibGainInvVoltR(X3)	0.1V	uint16
	0x002A	CalibGainInvVoltS(X3)	W	CalibGainInvVoltS(X3)	0.1V	uint16
	0x002B	CalibGainInvVoltT(X3)	W	CalibGainInvVoltT(X3)	0.1V	uint16
	0x002C	CalibEPSDcvAdjR(X3)	W	CalibEPSDcvAdjR(X3)	0.01V	int16
	0x002D	CalibEPSDcvAdjS(X3)	W	CalibEPSDcvAdjS(X3)	0.01V	int16
	0x002E	CalibEPSDcvAdjT(X3)	W	CalibEPSDcvAdjT(X3)	0.01V	int16
	0x002F	ClearEnergy_Meter/CT_1	W	1 effect	1	uint16
	0x0030	Adjust_AC_Current_S <b>(X3)</b>	W	Adjust_AC_Current_S (10~300)	0.1A	uint16
	0x0031	Adjust_AC_Volt_S <b>(X3)</b>	W	Adjust_AC_Volt_S (1500~3000)	0.1V	uint16
	0x0032	Adjust_AC_Current_T <b>(X3)</b>	W	Adjust_AC_Current_T (10~300)	0.1A	uint16
	0x0033	Adjust_AC_Volt_T <b>(X3)</b>	W	Adjust_AC_Volt_T (1500~3000)	0.1V	uint16
	0x0034	Adjust_CT_Zero <b>(X3)</b>	W	1 effect	1	uint16
	0x0035	Adjust_CT_Power_R <b>(X3)</b>	W	0~65535	1W	uint16
	0x0036	Adjust_CT_Power_S <b>(X3)</b>	W	0~65535	1W	uint16
	0x0037	Adjust_CT_Power_T <b>(X3)</b>	W	0~65535	1W	uint16
	0x0038	EpsPhaseSeqDetect	W	0:disable 1:enable	1	uint16
	0x0039	UserPassword	W	UserPassword 0000~9999	-	uint16
	0x003A	AdvancedPassword	W	AdvancedPassword 0000~9999	-	uint16
	0x0041	Export control Factory_Limit	W	Export control Factory_Limit (0~60000)	1W	uint16
	0x0042	Export control User_Limit	W	Export control User_Limit (0~60000)	1W	uint16
	0x0043	Off-grid_Mute	W	0: disable 1:enable	1	uint16
	0x0044	Off-grid_MinSoC	W	10~25	1%	uint16
	0x0045	Off-grid Frequncy	W	0: 50Hz 1:60HZ	1	uint16
	0x0046	AgeingMode	W	1:Enable 0:Disable	1	uint16



Language:		
0x0047 Language W 2:French 3:Polish 4:Spanish 5: Portuguese 6:Italian	1	uint16
0x0048   EnableMPPT   W   1:Enable 0:Disable	1	uint16
0x0049 wTuvp_L2 W TripTime_UnderVoltage_Level2 (0~10000)	1ms	uint16
0x004A   wTovp_L2   W   TripTime_OverVoltage_Level2 (0~10000)	1ms	uint16
0x004B   wTufp_L2   W   TripTime_UnderFrequency_Level2 (0~10000)	1ms	uint16
0x004C   wTofp_L2     W   TripTime_OverFrequency_Level2 (0~10000)	1ms	uint16
0x004D         wTuvp_L1         W         TripTime_UnderVoltage_Level1           (0~10000)         (0~10000)	1ms	uint16
0x004E wTovp_L1 W TripTime_OverVoltage_Level1 (0~10000)	1ms	uint16
0x004F wTufp_L1 W TripTime_UnderFrequency_Level1 (0~10000)	1ms	uint16
0x0050   wTofp_L1   W   TripTime_OverFrequency_Level1 (0~10000)	1ms	uint16
0x0051 PVConnectipon W 0: MULTI 1: COMM	1	uint16
0x0052   ShutDown   W   0:Disable 1:Enable	1	uint16
0x0053 MicroGrid W 0:Disable 1:Enable	1	uint16
0: stop 1:test Ovp(59.S2) 2:test Uvp(27.S1) 3:test Uvp(27.S2) 4: test Ofp(81 > .S1) 5: test Ufp(81 < .S1) 6: test Ofp2(81 < .S2) 7:test Ufp2(81 < .S2) 8: test Ovp_10(59.S1) 10:test all	1	uint16
0x0055   Clear overload fault   W   Write 1 effcet	1	uint16
0x0056 Bat_Awaken W Write 1 effcet (Lead-acid battery)	1	uint16
0x0057     OFPL_CurveType     W     0:Symmetry curve       1:Asymmetry curve	1	uint16
<b>0x0058</b> OFPL_Tstop W 0~600	1s	uint16
0x0059         OFPL_RemovePoint         W         5000~5200	0.01Hz	uint16



0×00E A	OFPL StartPoint	\^/	Over Frequency drop load output	0.014-	uint16
UXUUSA	OFPL_StartPoint	VV	(5020~5050)	0.01H2	uintit
0x005B	OFPL_SetRate	W	drop output slope (2~12)	1%	uint16
0x005C	OFPL_DelayTime	W	FreDroopDelayTime (0~2000)	1ms	uint16
0x005D	OFPL_fstop_disch	W	5050~6200	0.01Hz	uint16
0x005E	OFPL_fPmin	W	5100~6300	0.01Hz	uint16
0x005F	Reset_Mgr_EE	W	1:Reset normal configuration.	1	uint16
0x0060	absorpt_voltage	W	Lead acide battery absorpt_voltage (X1:850~4000 X3:1600~6500)	0.1V	uint16
0x0061	SelfUse_Discharge_MinSoC	W	10%~100%	1%	uint16
0x0062	SelfUse_NightCharge_Enable	W	0: Disable 1: Enable	1	uint16
0x0063	SelfUse_NightCharge_UpperSoC	W	This value will be enabled if SelfUse_NightCharge_Enable is 1. 10%~100%	1%	uint16
0x0064	Feedin_NightCharge_UpperSoC	W	10%~100%	1%	uint16
0x0065	Feedin_Discharge_MinSoC	W	10%~100%	1%	uint16
0x0066	BackUp_NightCharge_UpperSoC	W	30%~100%	1%	uint16
0x0067	BackUp_Discharge_MinSoC	W	30%~100%	1%	uint16
020069	NightChargo Poriod1 StartTime	W	StartHour	0~23	uint8(F
000000	NightCharge_Fehou1_Starthine	W	StartMinute	0~59	uint8(L
0×0060	NightCharge Period1 EndTime	W	EndHour	0~23 uint8	uint8(F
0.0009	Night Charge_renout_Lhu iiille	W	EndMinute	0~59	uint8(L
0×0064	Discharge Period1 StartTime	W	StartHour	0~23	uint8(H
OXOOOA	Discharge_renout_start nine	W	StartMinute	0~59	uint8(L
0×006B	Discharge Period1 EndTime	W	EndHour	0~23	uint8(F
ОХОООВ	Discharge_r choo1_thatmire	W	EndMinute	0~59	uint8(L
0x006C	Set_Chrg&DischrgPeriod2_Enable	W	1:Enable 0:Disable	1	uint16
0x006D	NightCharge Period2 StartTimee	W	StartHour	0~23	uint8(F
ОХОООВ	rvigittendige_i enod2_etaitimee	W	StartMinute	0~59	uint8(L
0x006F	NightCharge Period2 EndTime	W	EndHour	0~23	uint8(F
OXOGOL	rvigittonarge_i enoa2_Enamme	W	EndMinute	0~59	uint8(L
0x006F	Discharge Period2 StartTime	W	StartHour	0~23	uint8(F
	5.00.hdrgo_r onode_ otdrerning	W	StartMinute	0~59	uint8(L
0x0070	Discharge Period2 EndTime	W	EndHour	0~23	uint8(F
0,0070	Discriarge_renouz_EnuTime		EndMinute	0~59	uint8(L
0x0071	MainBreakerCurrentLimit	W	32A~100A	1A	uint16
	0x005C  0x005D  0x005E  0x0060  0x0061  0x0062  0x0063  0x0064  0x0065  0x0066  0x0067  0x0068  0x0069  0x006A  0x006B  0x006C  0x006C  0x006E	0x005BOFPL_SetRate0x005COFPL_DelayTime0x005DOFPL_fstop_disch0x005EOFPL_fPmin0x005FReset_Mgr_EE0x0060absorpt_voltage0x0061SelfUse_Discharge_MinSoC0x0062SelfUse_NightCharge_Enable0x0063SelfUse_NightCharge_UpperSoC0x0064Feedin_NightCharge_UpperSoC0x0065Feedin_Discharge_MinSoC0x0066BackUp_NightCharge_UpperSoC0x0067BackUp_Discharge_MinSoC0x0068NightCharge_Period1_StartTime0x0069NightCharge_Period1_EndTime0x006ADischarge_Period1_EndTime0x006BDischarge_Period2_Enable0x006CSet_Chrg&DischrgPeriod2_Enable0x006DNightCharge_Period2_StartTimee0x006ENightCharge_Period2_EndTime0x006FDischarge_Period2_EndTime0x0070Discharge_Period2_EndTime	0x005B         OFPL_SetRate         W           0x005C         OFPL_DelayTime         W           0x005D         OFPL_fstop_disch         W           0x005E         OFPL_fPmin         W           0x005F         Reset_Mgr_EE         W           0x0060         absorpt_voltage         W           0x0061         SelfUse_Discharge_MinSoC         W           0x0062         SelfUse_NightCharge_Enable         W           0x0063         SelfUse_NightCharge_UpperSoC         W           0x0064         Feedin_NightCharge_UpperSoC         W           0x0065         Feedin_Discharge_MinSoC         W           0x0066         BackUp_NightCharge_UpperSoC         W           0x0067         BackUp_Discharge_MinSoC         W           0x0068         NightCharge_Period1_StartTime         W           0x0069         NightCharge_Period1_StartTime         W           0x006A         Discharge_Period1_EndTime         W           0x006B         Discharge_Period2_Enable         W           0x006C         Set_Chrg&DischrgPeriod2_EndTime         W           0x006E         NightCharge_Period2_EndTime         W           0x006F         Discharge_Period2_EndTime         W <td>0x005A         OFPL_StartPoint (5020−5050)         W         Start point (5020−5050)           0x005B         OFPL_SetRate         W         drop output slope (2−12)           0x005C         OFPL_DelayTime         W         FreDroopDelayTime (0−2000)           0x005D         OFPL_fstop_disch         W         5050−6200           0x005E         OFPL_femin         W         5100−6300           0x005F         Reset_Mgr_EE         W         1:Reset normal configuration.           0x0060         absorpt_voltage         W         Lead acide battery absorpt_voltage (x1.850~4000 x3:1600~6500)           0x0061         SelfUse_Discharge_MinSoC         W         10%−100%           0x0062         SelfUse_NightCharge_Enable         W         0: Disable 1: Enable           0x0063         SelfUse_NightCharge_UpperSoC         W         10%−100%           0x0064         Feedin_NightCharge_UpperSoC         W         10%−100%           0x0065         Feedin_Discharge_MinSoC         W         10%−100%           0x0066         BackUp_Discharge_MinSoC         W         30%−100%           0x0067         BackUp_Discharge_Period1_StartTime         W         StartMinute           0x0068         NightCharge_Period2_EndTime         W         StartMinute</td> <td>0x005A         OFPL_StartPoint (5020−5050)         W (5020−5050)         0.01Hz (5020−5050)           0x005B         OFPL_SetRate         W (5020−5050)         1% (5020−5050)           0x005C         OFPL_DelayTime         W (5000−2000)         1ms           0x005D         OFPL_Istop disch         W 5050−6200         0.01Hz           0x005E         OFPL_Istop disch         W 5100−6300         0.01Hz           0x005F         Reset Mgr_EE         W 1:Reset normal configuration.         1           0x0060         absorpt_voltage         W 2.0100-6300         0.01Hz           0x0061         SelfUse_Discharge_MinSoC         W 10%-100%         1.9           0x0062         SelfUse_NightCharge_Enable         W 0.0 Disable 1: Enable         1           0x0063         SelfUse_NightCharge_UpperSoC         W 10%-100%         1.%           0x0064         Feedin_Discharge_MinSoC         W 10%-100%         1.%           0x0065         Feedin_Discharge_MinSoC         W 10%-100%         1.%           0x0066         BackUp_Discharge_MinSoC         W 30%-100%         1.%           0x0067         BackUp_Discharge_MinSoC         W 30%-100%         1.%           0x0068         NightCharge_Period1_EndTime         W StartHour         0-23</td>	0x005A         OFPL_StartPoint (5020−5050)         W         Start point (5020−5050)           0x005B         OFPL_SetRate         W         drop output slope (2−12)           0x005C         OFPL_DelayTime         W         FreDroopDelayTime (0−2000)           0x005D         OFPL_fstop_disch         W         5050−6200           0x005E         OFPL_femin         W         5100−6300           0x005F         Reset_Mgr_EE         W         1:Reset normal configuration.           0x0060         absorpt_voltage         W         Lead acide battery absorpt_voltage (x1.850~4000 x3:1600~6500)           0x0061         SelfUse_Discharge_MinSoC         W         10%−100%           0x0062         SelfUse_NightCharge_Enable         W         0: Disable 1: Enable           0x0063         SelfUse_NightCharge_UpperSoC         W         10%−100%           0x0064         Feedin_NightCharge_UpperSoC         W         10%−100%           0x0065         Feedin_Discharge_MinSoC         W         10%−100%           0x0066         BackUp_Discharge_MinSoC         W         30%−100%           0x0067         BackUp_Discharge_Period1_StartTime         W         StartMinute           0x0068         NightCharge_Period2_EndTime         W         StartMinute	0x005A         OFPL_StartPoint (5020−5050)         W (5020−5050)         0.01Hz (5020−5050)           0x005B         OFPL_SetRate         W (5020−5050)         1% (5020−5050)           0x005C         OFPL_DelayTime         W (5000−2000)         1ms           0x005D         OFPL_Istop disch         W 5050−6200         0.01Hz           0x005E         OFPL_Istop disch         W 5100−6300         0.01Hz           0x005F         Reset Mgr_EE         W 1:Reset normal configuration.         1           0x0060         absorpt_voltage         W 2.0100-6300         0.01Hz           0x0061         SelfUse_Discharge_MinSoC         W 10%-100%         1.9           0x0062         SelfUse_NightCharge_Enable         W 0.0 Disable 1: Enable         1           0x0063         SelfUse_NightCharge_UpperSoC         W 10%-100%         1.%           0x0064         Feedin_Discharge_MinSoC         W 10%-100%         1.%           0x0065         Feedin_Discharge_MinSoC         W 10%-100%         1.%           0x0066         BackUp_Discharge_MinSoC         W 30%-100%         1.%           0x0067         BackUp_Discharge_MinSoC         W 30%-100%         1.%           0x0068         NightCharge_Period1_EndTime         W StartHour         0-23



				0: Off		
	0x0072	PowerfactorMode	W	1:Over Excited		
				2:Under Excited	1	uint16
				3:Curve		
				4:Qu		
	0.0070			5:Fix Q Power	0.04	4.6
	0x0073	PowerfactorData	W	80~100	0.01	uint16
	0x0074	PowerFactor_Curve_PF1	W	80~100	0.01	uint16
	0x0075	PowerFactor_Curve_PF2	W	80~100	0.01	uint16
	0x0076	PowerFactor_Curve_PF3	W	80~100	0.01	uint16
	0x0077	PowerFactor_Curve_PF4	W	80~100	0.01	uint16
	0x0078	PowerFactor_Curve_Power1	W	0~100	1%	uint16
	0x0079	PowerFactor_Curve_Power2	W	0~100	1%	uint16
	0x007A	PowerFactor_Curve_Power3	W	0~100	1%	uint16
	0x007B	PowerFactor_Curve_Power4	W	0~100	1%	uint16
	0x007C	PowerFactor_Curve_PfLockInPoint	W	105~110	0.01	uint16
	0x007D	PowerFactor_Curve_PfLockOutPoint	W	90~98	0.01	uint16
	0x007E	PowerFactor_Curve_3Tau	W	6~60	1s	uint16
	0x007F	PowerFactor_Qu_VoltRatio1	W	0~60	1%	uint16
	0x0080	PowerFactor_Qu_VoltRatio4	W	0~60	1%	uint16
	0x0081	PowerFactor_Qu_QuResponseV1	W	1955~2300	0.1V	uint16
	0x0082	PowerFactor_Qu_QuResponseV2	W	1955~2301	0.1V	uint16
	0x0083	PowerFactor_Qu_QuResponseV3	W	2300~2650	0.1V	uint16
	0x0084	PowerFactor_Qu_QuResponseV4	W	2300~2651	0.1V	uint16
	0x0085	PowerFactor_Qu_K	W	{-1, 1}	0.1	uint16
	0x0086	PowerFactor_Qu_3Tau	W	6~60	1s	uint16
	0x0087	PowerFactor_Qu_QuDelayTimer	W	0~30	1s	uint16
	0x0088	PowerFactor_Qu_QuLockEn	W	{0,1}	1	uint16
	0x0089	PowerFactor_Qu_QuLockIn	W	0~20	1%	uint16
	0x008A	PowerFactor_Qu_QuLockOut	W	0~20	1%	uint16
	0.0000	5 5 5 6		PowerFactor_FixQPower_Min	1Var(X1)	
	0x008B	PowerFactor_FixQPower	W	~PowerFactor_FixQPower_Max	10Var(X3)	int16
	0x008C	EpsBatLowAutoRecoverVoltage (Rev)	R	EpsBatLowAutoRecoverVoltage	0.1V	uint16
	0x008D	PgridBias	W	0:Disable 1:Grid 2:INV	-	uint16
	0x008E	EpsRestartSoc	W	EpsRestartSoc	1%	uint16
	0x008F	485CommFunSelect	W	0:modbus 485 1:EV Charge 2:DadaHub	1	uint16
	0x0090	ConnectSlop(X3)	W	1~10000	1%	uint16



0x0091	ReconnectSlop(X3)	W	1~10000	1%	uint1
0x0092	UFPL_StartPoint	W	Under Frequency Safe load output start point (5020~5050)	0.01Hz	uint10
0x0093	UFPL_SetRate	W	Under Frequency drop output slope (2~12)	1%	uint10
0x0094	UFPL_DelayTime	W	FreDroopDelayTime (0~1000)	1ms	uint16
0x0095	UFPL_RemovePoint	W	4600~5000	0.01Hz	uint10
0x0096	UFPL_fstop_ch	W	4800~5950	0.01Hz	uint1
0x0097	UFPL_fPmax	W	4700~5900	0.01Hz	uint1
0x0098	ShadowFixFuncEnable2	R	-0:Off, 1:Low, 2:Middle, 3:Hight	-	uint1
0x0099	HotStandbyEN	W	0:enable 1:disable	1	uint1
0x009A	ExtendBmsSetting	W	0:disable 1:enable	1	uint10
0x009B	ATE Test	W	1effect	1	uint1
0x009C	wShadowFixFuncEnable	W	0:Off 1:Low 2:Middle 3:Hight	1	uint10
0x009D	ExternalSignal	W	ExternalSignal	1	uint10
0x009E	PhasePowerBalance(X3)	W	0:disable 1:enable	1	uint10
0x009F	OFPL_Wgra	W	500~10000	0.0001	uint10
0x00A0	MeterFunction	W	0:disable 1:enable	1	uint1
0x00A1	Meter1_ID	W	Meter1 ID 1~200	1	uint16
0x00A2	Meter2_ID	W	Meter2 ID 1~200	1	uint10
0x00A3	Reset Meter2 Energy	W	1effect	1	uint10
0x00A4	DirectionMeterCT1	W	0:Positive 1:Negative	1	uint10
0x00A5	DirectionMeter2	W	0:Positive 1:Negative	1	uint1
0x00A6	DischCutOffPoint_DifferentEN	W	Lead acide battery 0:disable 1:enable	1	uint10
0x00A7	ExternalInv	W	0:Enable1:Disable	1	uint1
0x00A8	DischCutOffVoltage_GridMode	W	Lead acide battery DischargeCutVoltage~8000	0.1V	uint10
0x00A9	DRMFunctionEnable	R	0:disable 1:enable	1	uint10
0x00AA	Meter/CT_Select	W	0:Meter 1:CT	1	uint10
0x00AB	FVRT_Function	W	0:Disable 1:Enable	1	uint1
0x00AC	FVRT_VacUpper	W	230~280	1V	uint10
0x00AD	FVRT_VacLower	W	46~240	1V	uint10
0x00AE	PuFuncEnable	W	0:disable 1:enable	1	uint10
0x00AF	PuFunc_ResponseV1	W	207.0~276.0	0.1V	uint10
0x00B0	PuFunc_ResponseV2	W	207.0~276.0	0.1V	uint1



0x00B1	PuFunc_ResponseV3	W	207.0~276.0	0.1V	uint16
0x00B2	PuFunc_ResponseV4	W	207.0~276.0	0.1V	uint16
0x00B3	PuFunc_3Tau	W	6~180	1s	uint16
0x00B4	LeaseModeEnable	W	0:Disable 1:Enable	1	uint16
0x00B5	DeviceLockFlag	W	0:UnLock 1:Lock	1	uint16
0x00B6	ManualModeControl	W	0:OFF 1:ON	1	uint16
0x00B7	FeedinOnPower	W	0~8000	1 W	uint16
0x00B8	SwitchOnSoc	W	0~100	1%	uint16
0x00B9	ConsumeOffPower	W	0~8000	1 W	uint16
0x00BA	SwitchOffSoc	W	0~100	1%	uint16
0x00BB	MinimumPerOnSignal	W	5~100	1Min	uint16
0x00BC	MiaximumPerDayOn	W	5~1200	1Min	uint16
0x00BD	ScheduleEnable	W	0: disable 1:enable	1	uint16
00005	Mand-CharleTiles - 1	W	bP1_StartHour	0~23	uint8(F
0x00BE	WorkStartTime1	W	bP1_StartMinute	0~59	uint8(L
OVOORE	Mark FrailTimed	W	bP1_StopHour	0~23	uint8(F
0x00BF	WorkEndTime1	W	bP1_StopMinute	0~59	uint8(L
0x00C0	Worl-CtartTime?	W	bP2_StartHour	0~23	uint8(F
0x00C0 0x00C1	WorkStartTime2	W	bP2_StartMinute	0~59	uint8(L
	Modula d'Tima 2	W	bP2_StopHour	0~23	uint8(F
0x00C1	WorkEndTime2	W	bP2_StopMinute	0~59	uint8(L
0x00C2	LoadManagementWorkMode	W	0:Disable 1:manual 2:SmartSave	1	uint16
0x00C3	DryContactMode	W	0:Load Management 1:Generator Control	1	uint16
0x00C4	SelfuseModeBackupEn	W	0:disable 1:enable	1	uint16
0x00C5	SelfUse_BackupSoc	W	10~100	1%	uint16
0x00C6	Parallel Setting	W	0:Free 1: Master	1	uint16
0x00C7	ExternalGenEn	W	0:Disable 1:Enable	1	uint16
0x00C8	ExternalGenMaxCharge	W	ExternalGenMaxCharge	1W(X1) 10W(X3)	uint16
0x00C9	ModBusRTU_Address	W	ModBusRTU_Address	1	uint16
0x00CA	ModBusRTU_BraudRate	W	0:115200 1:57600 2:56000 3:38400 4:19200 5:14400 6:9600	bit/s	uint16
0x00CB	SetPuPower1	W	0~20	1%	uint16
0x00CC	SetPuPower2	W	0~100	1%	uint16
0x00CD	SetPuPower3	W	0~100	1%	uint16
0x00CE	SetPuPower4	W	0~20	1%	uint10
0x00CF	BatteryHeatingEn	W	BatteryHeatingEn	_	uint16
0050	HeatingPeriod1_StartMinute	W	HeatingPeriod1_StartMinute	0~23	uint8(F
0x0D0	HeatingPeriod1_StartHour	W	HeatingPeriod1_StartHour	0~59	uint8(L
		_	•	-	-



	0x00D1	HeatingPeriod1_EndMinute	W	HeatingPeriod1_EndMinute	0~23	uint8(H
		HeatingPeriod1_EndHour	W	HeatingPeriod1_EndHour	0~59	uint8(L
	0x00D2	HeatingPeriod2_StartMinute	W	HeatingPeriod2_StartMinute	0~23	uint8(F
		HeatingPeriod2_StartHour	W	HeatingPeriod2_StartHour	0~59	uint8(L
	0x00D3	HeatingPeriod2_EndMinute	W	HeatingPeriod2_EndMinute	0~23	uint8(H
		HeatingPeriod2_EndHour	W	HeatingPeriod2_EndHour	0~59	uint8(L
	0x00D4	ExportSoftLimitEn	W	O:Disable 1:Enable	-	uint16
	0x00D5	ExportHardLimitEn	W	0:Disable 1:Enable	-	uint16
	0x00D6	HardExportPower	W	0~15000	1W(X1)	uint16
					10W(X3)	
	0x00D7	GeneralSoftLimitEn	W	O:Disable 1:Enable	ı	uint16
	0x00D8	GeneralHardLimitEn	W	O:Disable 1:Enable	ı	uint16
	0x00D9	SoftAcPowertLimit W	0~15000	1VA(X1)	uint16	
		SoftAcrowertLiffiit	۷۷	013000	10VA(X3)	UIIILI
	0x00DA	HardAcPowertLimit	W	0~15000	1VA(X1)	uint16
		riardAcrowertLimit	VV	013000	10VA(X3)	ullitit
	0x00DB	ResetErrorLog	W	Write 1 effcet	-	uint16
	0x00DC	ResetINVEnergy	W	Write 1 effcet	-	uint16