

Energy Storage Inverter Modbus TCP&RTU Communication protocols

V3.36





History list:

Date	Name	detail	Version	other
2020-6-16	GaoRui	1.Delete RF related data; 2.Modify work mode related data; 3.The communication format is changed from the original Modbus TCP to Modbus RTU.	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:Spanish 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	WangJian Xing	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-	GaoRui	1.Add SelfUse_NightCharge_Enable, Feedin_NightCharge_UpperSoC,BackUp_NightCharge_Upper SoC; .(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. (1) Write Single Register 0x000A. (2) Read Holding Register 0x001E.	V 3.06	
2020-12-	GaoRui	1.Delete PowerManagerConfigData 、PowerManagerEnable	V3.07	



22		parameters. 2.Add HardwareVersionDSP parameter, which at 0x007D Holding Register.		
		3.Modify absorpt_voltage parameter position, which from		
		0x00A7 to 0x0092 at Holding Register.		
		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).		
0004 04		1.Add Registration Code(for external module) parameter,		
2021-01-	GaoRui	which from 0x00AA to 0x00AE at Read Holding Register.	V3.08	
29		2.Modify 0x0116 register LVRT_Function parameter's description, which at Holding Register.		
		1. Add Adjust_CT parameters, which from 0x0034 to 0x0037		
2021-03-	wangjianx	at Write Single Register.	V3.09	
02	ing	Modify some BMS warning Spelling mistake	V 3.03	
		Add "Notice" explain about use "Write Single		
		Registers"and"WriteMultiple Registers"attentions		
2021-06-	wangjianx	Add Write single registers 0x0029~0x002E about	1/0 40	
21	ing	CalibGainInvVolt and CalibEPSDcvAdj	V3.10	
		Add Read Input registers 0x009C~0x009E about InvVoltR \		
		InvVoltS、InvVoltT		
		Add Write single registers		
		0x00A4 : DirectionMeterCT1		
2021-08-	wangjianx	0x00A5 : DirectionMeter2	V3.11	
19	ing	Add Read Input registers	V 0.11	
		0x010B : DirectionMeterCT1		
		0x010C : DirectionMeter2		
		Add safety types(AS 4777_2020_B、AS 4777_2020_C、User-		
		Defined EN50549_Romania CEI016)		
		Add Read Input Registers		
2021-9-3	wangjianx	0x00BA Battery_Tem_High 0x00BB Battery_Tem_Low	V3.12	
2021-9-3	ing	0x00BB Battery_Telli_Low 0x00BC Cell_Voltage_High	V 3.12	
		0x00BC Cell_Voltage_Ingil		
		Add Write single register		
		0x0046 AgeingMode(for ATE use)		
		Add Read Holding Registers		
		0x11C bPVConnectionMode(X1)		
2021 0 20	Tangyanc		\/2.12	
2021-9-28	hong	Add Write Single Registers	V3.13	
		0x0051 PVConnectipon(X1)		
		0x00AE PuFuncEnable		



		0x00AF PuFunc_ResponseV1		
		0x00B0 PuFunc_ResponseV2		
		0x00B1 PuFunc_ResponseV3		
		0x00B2 PuFunc_ResponseV4		
		0x00B3 PuFunc_3Tau		
		Add Read Holding Registers		
	wangjianx	0x00A8 wBatteryDischargeBackupVoltage		
2021-11-2	ing	Add Write Single Registers	V3.14	
	ing	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		
2021-11-	Tanawana	0x012F DryContactMode		
2021-11-	Tangyanc	0x0130 Parallel Setting	V3.15	
22	hong	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-	Tangyanc	Add Upgrade Example For X1G4(File DSP)	V3.16	
04	hong	Add Opgrade Example For ATG4(File DSI)	V3.10	
		Add Read Holding Registers		
		0x00A9 MatchResistanceSet(X3)		
		0x0131 ExternalGenEn		
2022-01-	wangjianx	0x0132 ExternalGenMaxCharge	V3.17	
11	ing	Add Write Single Registers	V 3.11	
		0x00C6 MatchResistanceSet(X3)		
		0x00C7 ExternalGenEn		
		0x00C8 ExternalGenMaxCharge		
		Add Read Holding Register (BMS Info)		
2022-01-	tangyanc	Add Read Input Registers	V3.18	
13	hong	0x011F wBatteryForceChargeFlag	V 3.10	
		0x0120 wBMSRelayState		



		T		
		Add Read Holding Registers		
		0x00B9 Off-grid Frequncy		
		Add Read Holding Registers		
	wangjianx	0x0103 CtType(X3)		
2022-1-29	ing	Add Write Single Registers	V3.19	
	9	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		
	wangjiaxi	0x00A2 ExtendBmsSetting		
2022-4-14		0x00B2 PgridBias	V3.20	
	ng	Add Write Single Registers		
		0x008E EpsRestartSoc		
		0x0099 HotStandbyEN		
		0x009A ExtendBmsSetting		
		0x008C EpsBatLowAutoRecoverVoltage		
		0x008D PgridBias		
		Add Read Holding Registers		
		0x00F2 SetpointTimeout		
		0x0110 InPutDI1		
2022-6-21	wangjianx	nnx 0x0114 ShadowFixFuncEnable2	V3.21	
2022-0-21	ing 0:	0x007F FirmwareVersion_DSP_Major	V3.Z1	
		0x0080 FirmwareVersion_ARM_Major		
		Add Write Single Registers		
		0x0098 ShadowFixFuncEnable2		
		Add Read Holding Registers		
		0x010E BatteryChargeMaxSoc		
		0x010F bBatterToEVCharge		
		Add Write Single Registers		
2022 10		0x00E0 BatteryChargeMaxSoc		
2022-10-	tangyanc	0x00E1 bBatterToEVCharge	V3.22	
14	hong	Add Table Read Holding Register (Data Hub)		
		Add Table Read Input Register(Data Hub)		
		Add Table Write Multiple Register(Data Hub)		
		Adjust "Export control user limit" accuracy description(X1 1W)		
		X3 10W)		
		Add Read Input Registers:		
0000 : 0	wangjianx	0x0121:BMS RestartFlag	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
2023-1-6	ing	Add Write Single Registers:	V3.23	
		0x00E2: BMS Restart		
L	l	<u> </u>	1	



		Repair function code 0x04 regriters 0x00BD~0x00C4 and function code 0x06 regriters 0x004A~0x0050 data format		
		mistake.(1ms(X1) 10ms(X3))		
		Add Gen Fuction Registers:		
		Read Holding Registers 0x0x0140~0x0147		
		Write Single Registers 0x00E3~0x00EB		
		Update partial write parameter range.		
		Add Read Holding Register:		
		VPPPExitIdleEn(0x00B4)		
		PeakShvingMode parameter (0x0150~0x0159)		
		Add Write Single Registers:		
		PeakShvingMode parameter (0x00EA~0x0F3)		
		VPPPExitIdleEn(0x00F4)		
		Add Read Holding Registers:		
		0x00B3: FastCtCheckEn		
		0x015C: EVChargerAddr		
		0x015E: AdaptBoxG2Addr		
	tangyanc	Add Write Single Registers:		
0000 0 47		0x00F5: FastCtCheckEn	\	
2023-3-17	hong	0x00F9: EVChargerAddr	V3.24	
		0x00FB: AdaptBoxG2Addr		
		Revise Write Single Registers		
		PeakShvingMode Parameter (0x00EA~0x00ED)		
		BatteryHeating Parameter(0x00D0~0x00D3)		
		Gen Allow Work Time(0x00E8~0x00E9)		
		Add Read Holding Registers:		
		0x0160 CTFalutEn		
2022 C E	tangyanc	0x0160 u16SuperBuckUpEn	\/O OF	
2023-6-5	hong	Add Write Single Registers:	V3.25	
		0x00FD CTFalutEn		
		0x00FE u16SuperBuckUpEn;		
		Add Read Holding Registers:		
		0x0162 GenCharge_StartHour		
		GenCharge_StartMinute		
		0x0163 GenCharge_EndHour		
2022 6 5	tangyanc	GenCharge_EndMinute	\/2.26	
2023-6-5	hong	0x0164 GenDischarge_StartHour	V3.26	
		GenDischarge_EndMinute		
		0x0165 GenDischarge_StartHour		
		GenDischarge_EndMinute		
		0x0166 GenP2_SetEnable		



0x0167 GenP2Charge_StartHour	
GonD2 Charge Start Minute	
GenP2Charge_StartMinute	
0x0168 GenP2Charge_EndHour	
GenP2Charge_EndMinute	
0x0169 GenP2Discharge_StartHour	
GenP2Discharge_EndMinute	
0x016A GenP2Discharge_StartHour	
GenP2Discharge_EndMinute	
0x016B ChargeFromGenEnable	
0x016C ChargeFromGen_ChargeSoC	
0x0148 GenMinPower	
Add Write Single Registers:	
0x0FF SmartScheduleWorkMode	
0x0100 GenCharge_StartHour	
GenCharge_StartMinute	
0x0101 GenCharge_EndHour	
GenCharge_EndMinute	
0x0102 GenDischarge_StartHour	
GenDischarge_EndMinute	
0x0103 GenDischarge_StartHour	
GenDischarge_EndMinute	
0x0104 GenP2_SetEnable	
0x0105 GenP2Charge_StartHour	
GenP2Charge_StartMinute	
0x0106 GenP2Charge_EndHour	
GenP2Charge_EndMinute	
0x0107 GenP2Discharge_StartHour	
GenP2Discharge_EndMinute	
0x0108 GenP2Discharge_StartHour	
GenP2Discharge_EndMinute	
0x0109 ChargeFromGenEnable	
0x010A ChargeFromGen_ChargeSoC	
0x010B GenMinPower	
1 □ □ □ X3-Hybrid-G4 □ □ □	
2	
$\square/\square \square \square/\square \square \square \square \square (0x05/0x06/0x0c/0x0d)$	
QuResponseV1/2/3/4(0x81~0x84)	
20230717 JiaoGuan ResponseV1/2/3/4(0xaf~0xb2) V3.27	
20230717 gwen Adjust_AC_Volt_R/S/T(0x17/0x31/0x33) V3.27	
CalibGainInvVoltR/S/T(0x29~0x2b)	
CalibEPSDcvAdjRS/T(0x2c~0x2e)	
3 □ Modify Write Single Registers:	
0x0047: Language	



20230825	Tangyanc hong	Add Write Single Registers: 0x00DF Reset INV 0x010C FastInEPS Add Read Holding Registers: 0x016D FastInEPSEn	V3.28	
20231012	Fangziyin	Modify Write Single Registers: 0x001F SolarChargeUseMode 0x008F 485CommFunSelect Modify Read Holding Registers: 0x008B SolarChargeUseMode 0x013E 485CommFunSelect Add Read Holding Registers: 0x016E~0x0173□ 0x016E(L) TOUMode_TotalMinSoc 0x016E(H) TOUMode_WorkMode 0x016F TOUMode_SelfUseMinSOC 0x0170(L) TOUMode_ChargeFromGridEn 0x0170(H) TOUMode_ChargeStopSOC 0x0171(L) TOUMode_DischgPowerLimitRate 0x01771(H) TOUMode_DischargeMinSOC 0x0172 TOUMode_PeakShavingLimit(L) 0x0173 TOUMode_PeakShavingLimit(H) 0x0174 bShotoffEn(X3) 0x0175 PowerFactor_Qu_VoltRatio2 0x0176 PowerFactor_Qu_VoltRatio3	V3.29	
20231214	Fangziyin	Modify Read Holding Registers 0x00BB language Modify Write Single Registers 0x0047 language 0x0100~0x0108 Gen WorkPeriod1&2	V3.30	
20240117	FangZiyin	Adjusting the layout format; Add Read Holding Registers: 0x0177 CTCutDownINVEn Add Write Single Registers: 0x010D CTCutDownINVEn	V3.31	

X	SOLAX
	POWER

20240226	SongZhipeng	Chapters as follow has added: 0x03:Read Holding Register(EvCharger) 0x04:Read Input Register(EvCharger) 0x10:Write Multiple Register(EvCharger) "Upgrade W/R Register and Example"-"UpgradeModule", added new module "10:EVCharger"		
20240311	FangZiyin	Modify Multiple Register Modify 0x007C Modbus Power Control Description Modify EVCharger Register Description	V3.33	
20240313	Fangziyin	Modify Chapters as follow: 0x03:Read Holding Register(EvCharger) 0x04:Read Input Register(EvCharger) 0x10:Write Multiple Register(EvCharger) Redirect to (Solax)EVC ModbusRTU V3.3	V3.34	
20240517	SongZhipeng	Chapters as follow has added: 0x10:Write Multiple Register(Modbus PV Control)	V3.35	
20240611	FangZiyin	Modify 0x06 GridParameters' Range: 对应地址 0x59, 0x5A, 0x5D, 0x5E, 0x92, 0x95~0x97	V3.36	

Version matching information

Protocol version	ARM version(X1)	ARM version(X3)
V3.01	V1. 01~V1. 03	V1.01~V1.03



V3.02		
V3.03		
V3.04		
V3.05		
V3.06		
V3.07		
V3.08	V1.04~1.14	
V3.09	9	V1. 04~V1. 09
V3.10		V1. 04 V1. 09
V3.11		
V3.12	1.15	
V3.13		$V1.~10^{\sim}V1.~19$
V3.14		V1.10 V1.19
V3.15		
V3.16	1.16	
V3.17		V1.20
V3.18		VI.ZU

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:

MODBUS message							
Start		Address	Function	Data	CRC Check		End
≥ 3.5 char		8 bits	8 bits to	//blog N x 8 bits 012166	958 16 bits		≥ 3.5 char

protocols type ☐ Modbus TCP(for Monitoring module)

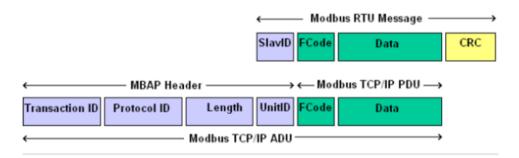
port□502

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

32bit data use little endian format

Functi		Read	Holdi	ng Register			
on Code	Register	Variable	W/ R	descripton	Unit	Data format	Leng th
	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
	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
0X03	0x001A	VacMaxProtect	R	allowed maximum grid voltage	0.1V	uint16	1
0.003	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 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	_	uint16	1



	POWER			
		10:NRS097_2_1		
		11:VDE0126_Gr_ls		
		12:UTE_C15_712		
		13:IEC61727(<mark>X1</mark> /X3)		
		14:G99/1		
		15:VDE0126_Gr_Co		
		13.VDL0120_GI_C0 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		
		40: Chile2021 MT_R		
		41: Chile2021 MT_U		
		42: Czech_2022_2		
		43: G98/NI-1		
		44: G99/NI-1		
		45: G99/NI_Type B		
		46: CQC		
		47: LA_3P_380		
		48: LA_3P_220		
		(X3)		
		(X1)		
		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	
0x001F	Grid10MinAvgProtect	R	10minutes over voltage protect	0.1V	uint16	
0x0020	VacMinSlowProtect	R	grid undervoltage protect value	0.1V	uint16	
0x0021	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	-	ı	uint16	
0x0025	PowerLimitsPercent	R	output power limits precent	0~100	uint16	
0x0026	PowerfactorMode	R	0: Off 1:Over Excited 2:Under Excited 3:Curve 4:Qu 5:Fix Q Power	1	uint16	
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
0x0031	PowerFactor_Curve_PfLockOutPoint	R	PowerFactor_Curve_PfLockOutPoi nt	0.01	uint16	1



0	x0032	PowerFactor_Curve_3Tau	R	PowerFactor_Curve_3Tau	1s	uint16	1
0	x0033	PowerFactor_Qu_VoltRatio1	R	PowerFactor_Qu_VoltRatio1	1%	uint16	1
0	x0034	PowerFactor_Qu_VoltRatio4	R	PowerFactor_Qu_VoltRatio4	1%	uint16	1
0	x0035	PowerFactor_Qu_QuResponseV1	R	PowerFactor_Qu_QuResponseV1	0.1V	uint16	1
0	x0036	PowerFactor_Qu_QuResponseV2	R	PowerFactor_Qu_QuResponseV2	0.1V	uint16	1
0	x0037	PowerFactor_Qu_QuResponseV3	R	PowerFactor_Qu_QuResponseV3	0.1V	uint16	1
0	x0038	PowerFactor_Qu_QuResponseV4	R	PowerFactor_Qu_QuResponseV4	0.1V	uint16	1
0	x0039	PowerFactor_Qu_K	R	PowerFactor_Qu_K	0.1	int16	1
0:	x003A	PowerFactor_Qu_3Tau	R	PowerFactor_Qu_3Tau	1s	uint16	1
0	x003B	PowerFactor_Qu_QuDelayTimer	R	PowerFactor_Qu_QuDelayTimer	1s	uint16	1
	0020	Develope the state Over Over a self-se	R	PowerFactor_Qu_QuLockEn	1		1
"	x003C	PowerFactor_Qu_QuLockEn	K	0:Disable 1::Enable	1	uint16	1
0:	x003D	PowerFactor_Qu_QuLockIn	R	PowerFactor_Qu_QuLockIn	1%	uint16	1
0	x003E	PowerFactor_Qu_QuLockOut	R	PowerFactor_Qu_QuLockOut	1%	uint16	1
0	x003F	PowerFactor_FixQPower	R	PowerFactor_FixQPower	1Var	int16	1
0	x0040	PowerFactor_FixQPower_Max	R	PowerFactor_FixQPower_Max	1Var	int16	1
0.	x0041	PowerFactor_FixQPower_Min	R	PowerFactor_FixQPower_Min	1Var	int16	1
0	x0042	wConnection_FL	R	Connection Low frequency	0.01Hz	int16	1
0	x0043	wConnection_FH	R	Connection High frequency	0.01Hz	int16	1
0	x0044	wConnection_VL	R	Connection Low voltage	0.1V	int16	1
0.	x0045	wConnection_VH	R	Connection High voltage	0.1V	int16	1
0.	x0046	wConnection_ObserveT	R	Connection Observation time	1S	int16	1
0.	x0047	wConnection_GradientEn	R	Connection Gradient Select	1	int16	1
0	x0048	wReconnection_FL	R	Reconnection Low frequency	0.01HZ	int16	1
0	x0049	wReconnection_FH	R	Reconnection High frequency	0.01Hz	int16	1
0:	x004A	wReconnection_VL	R	Reconnection Low voltage	0.1V	int16	1
0.	x004B	wReconnection_VH	R	Reconnection High voltage	0.1V	int16	1
0.	x004C	wReconnection_ObserveT	R	Reconnection Observation time	1S	int16	1
0:	x004D	wReconnection_GradientEn	R	Reconnection Gradient Select	1	int16	1
0	x004E	wReconnection_Gradient	R	Reconnection Gradient	1%	int16	1
0	x004F	Reserve	R			uint16	59
~(0x007C	vezei ve	K	-	-	unitio	59
0:	x007D	FirmwareVersion_DSP_Minor	R	FirmwareVersion_DSP_Minor	1	uint16	1
0	x007E	HardwareVersion_DSP	R	HardwareVersion_DSP	1	uint16	1
0	x007F	FirmwareVersion_DSP_Major	R	FirmwareVersion_DSP_Major	1	uint16	1
0.	x0080	FirmwareVersion_ARM_Major	R	FirmwareVersion_ARM_Major	1	uint16	1
0	x0081	Rev					
0	x0082	Firmware Version_Modbus RTU	R	Current version matches	1	uint16	1
	2002			FirmwareVersion_ARM			
0	x0083	FirmwareVersion_ARM_Minor	R	FirmwareVersion_ARM_Minor	1	uint16	1



					1	
0x0084	FirmwareVersion_ARM_Bootloader	R	FirmwareVersion_ARM_Bootloade r	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	SolarChargerUseMode	R	SolarChargerUseMode: 0:Self use mode 1: Feedin Priority 2:Back up mode 3:Manual mode 4: Peak Shaving 5: Tou 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
UX0095	Feedin_Discharge_MinSoC	R	10%~100%	1%	uint8(Lo)	Τ
0x0096	BackUp_NightCharge_UpperSoC	D	30%~100%	1%	uint8(Hi)	1
080096	BackUp_Discharge_MinSoC	R	30%~100%	1%	uint8(Lo)	1
0x0097	ChargePeriod1_StartMinute	R	0-59	1M	uint8(Hi)	1



	ChargePeriod1_StartHour	R	0-23	1H	uint8(Lo)	
0x0098	ChargePeriod1_EndMinute	R	0-59	1M	uint8(Hi)	1
0x0098	ChargePeriod1_EndHour	R	0-23	1H	uint8(Lo)	1
0x0099	DischargePeriod1_StartMinute	R	0-59	1M	uint8(Hi)	1
00099	DischargePeriod1_StartHour	R	0-23	1H	uint8(Lo)	1
0x009A	DischargePeriod1_EndMinute	R	0-59	1M	uint8(Hi)	1
0X009A	DischargePeriod1_EndHour	R	0-23	1H	uint8(Lo)	1
0x009B	Set_Chrg&DischrgPeriod2_Enable	R	Whether to use period 2. 0:Disable 1:Enable	1	uint16	1
0x009C	ChargePeriod2_StartMinute	R	0-59	1M	uint8(Hi)	1
0,0000	ChargePeriod2_StartHour	R	0-23	1H	uint8(Lo)	1
0x009D	ChargePeriod2_EndMinute	R	0-59	1M	uint8(Hi)	1
0003D	ChargePeriod2_EndHour	R	0-23	1H	uint8(Lo)	1
0x009E	DischargePeriod2_StartMinute	R	0-59	1M	uint8(Hi)	1
OXOUSE	DischargePeriod2_StartHour	R	0-23	1H	uint8(Lo)	1
0x009F	DischargePeriod2_EndMinute	R	0-59	1M	uint8(Hi)	1
UXUU9F	Discharge Period2_EndHour	R	0-23	1H	uint8(Lo)	1
0x00A0	EpsRestartSoc	R	10~100	1%	uint16	1
0x00A1	HotStandbyEN	R	0:enable 1:disable	1	uint16	1
0x00A2	ExtendBmsSetting	R	0:disable 1:enable	1	uint16	1
0x00A3	BatteryHeatingEn	R	0:disable 1:enable	-	uint16	1
0x00A4	HeatingPeriod1_StartMinute	R	0-59	1M	uint8(Hi)	1
0/100/11	HeatingPeriod1_StartHour	R	0-23	1H	uint8(Lo)	
0x00A5	HeatingPeriod1_EndMinute	R	0-59	1M	uint8(Hi)	1
0/100/10	HeatingPeriod1_EndHour	R	0-23	1H	uint8(Lo)	_
0x00A6	HeatingPeriod2_StartMinute	R	0-59	1M	uint8(Hi)	1
0,007,10	HeatingPeriod2_StartHour	R	0-23	1H	uint8(Lo)	_
0x00A7	HeatingPeriod2_EndMinute	R	0-59	1M	uint8(Hi)	1
0,007,11	HeatingPeriod2_EndHour	R	0-23	1H	uint8(Lo)	_
8A00x0	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	InvVoltZeroResultj(X3)	R	1:校准完成 其他: 校准失败	1	uint16	1
0x00B2	PgridBias	R	0:Disable 1:Grid 2:INV	-	uint16	1



0x00B3	FastCtCheckEn	R	0:disable 1:enable	1	uint16	1
0x00B4	VPPExitIdleEn	R	0:Disable 1:Enable	1	uint16	<u>1</u>
0x00B5	Factorylimit	R	Factorylimit	1W	uint16	1
0x00B6	Export control user limit	R	Export_control user limit	1W(X1) 10W(X3)	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 7:chinese(BAN) 8:ukrainian 9:Brazil	0~5	uint16	1
0x00BC	EnableMPPT	R	1:enable 0:Disable	0/1	uint16	1
0x00BD	wTuvp_L2	R	wTuvp_L2	1ms(X1) 10ms(X3)	uint16	1
0x00BE	wTovp_L2	R	wTovp_L2	1ms(X1) 10ms(X3)	uint16	1
0x00BF	wTufp_L2	R	wTufp_L2	1ms(X1) 10ms(X3)	uint16	1
0x00C0	wTofp_L2	R	wTofp_L2	1ms(X1) 10ms(X3)	uint16	1
0x00C1	wTuvp_L1	R	wTuvp_L1	1ms(X1) 10ms(X3)	uint16	1
0x00C2	wTovp_L1	R	wTovp_L1	1ms(X1) 10ms(X3)	uint16	1
0x00C3	wTufp_L1	R	wTufp_L1	1ms(X1) 10ms(X3)	uint16	1
0x00C4	wTofp_L1	R	wTofp_L1	1ms(X1) 10ms(X3)	uint16	1
0x00C5	TestStep	R	TestStep	1~8	uint16	1
0x00C6	OvpValue(Ovp(59.S2))	R	1 means test Ovp(59.S2)	0.1V	uint16	1
0x00C7	OvpTime(Ovp(59.S2))	R	2 means test Uvp(27.S1)	1ms	uint16	1
0x00C8	UvpValue(Uvp(27.S1))	R	3 means test Uvp(27.S2)	0.1V	uint16	1
0x00C9	UvpTime(Uvp(27.S1))	R	4 means test Ofp(81>.S1)	1ms	uint16	1
0x00CA	OfpValue(Ofp(81>.S1))	R	5 means test Ufp(81<.S1)	0.01Hz	uint16	1



0x00CB	OfpTime(Ofp(81>.S1))	R	6 means test Ofp2(81>.S2)	1ms	uint16	1
0x00CC	UfpValue(Ufp(81<.S1))	R	7 means test Ufp2(81<.S2)	0.01Hz	uint16	1
0x00CD	UfpTime(Ufp(81<.S1))	R	8 means test Ovp_10(59.S1)	1ms	uint16	1
0x00CE	SelfTestOvp10mAvgVal (Ovp_10(59.S1))	R	9 means success	0.1V	uint16	1
0x00CF	SelfTestOvp10mAvgTime (Ovp_10(59.S1))	R		1S	uint16	1
0x00D0	SelfTestOfpVal_Restrictive (Ofp2(81>.S2))	R		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
0x00D4	SelfTest_UvpRestrictive_Val (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	PfLockInPoint	R	Set Power Factor parameter	105 - 110	uint16	1
0x00D9	PfLockOutPoint	R		9890	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



Ox00E5 OFPL_CurveType R Overfrequency load reduction curve type selction. O.Symmetry curve 1:Asymmetry curve Ox00E6 OFPL_Tstop R Overfrequency load reduction asymmetry curve stop time. Overfrequency load reduction frequency remove point. Ox00E8 UFPL_RemovePoint R UFPL_RemovePoint R R ExportSoftLimitEn R ExportSoftLimitEn Ox00EA ExportHardLimitEn R ExportHardLimitEn Cx00EB GeneralSoftLimitEn R GeneralSoftLimitEn Cx00EC GeneralHardLimitEn R GeneralHardLimitEn Cx00EC GeneralHardLimitEn R Cx00EC GeneralHardLimitEn R Cx00EC	1 1 1 1 1 1 1 1
Ox00E6 OFPL_Tstop R asymmetry curve stop time. 1s uint16 Ox00E7 OFPL_RemovePoint R Overfrequency load reduction frequency load increase frequency remove point. 0.01Hz uint16 Ox00E8 UFPL_RemovePoint R Underfrequency load increase frequency remove point. 0.01Hz uint16 Ox00E9 ExportSoftLimitEn R ExportSoftLimitEn - uint16 Ox00EA ExportHardLimitEn R ExportHardLimitEn - uint16 Ox00EB GeneralBoftLimitEn R GeneralBoftLimitEn - uint16 Ox00EC GeneralHardLimitEn R GeneralHardLimitEn - uint16 Ox00ED wAcPowerLimit R WAcPowerLimit 1VA(X1) uint16 Ox00EE ConnectSlop(X3) R ConnectSlop 1% uint16 Ox00EF ReconnectSlop(X3) R ReconnectSlop 1% uint16	1 1 1 1 1 1
0x00E7 OFPL_RemovePoint R frequency remove point. 0.01Hz uint16 0x00E8 UFPL_RemovePoint R Underfrequency load increase frequency remove point. 0.01Hz uint16 0x00E9 ExportSoftLimitEn R ExportSoftLimitEn - uint16 0x00EA ExportHardLimitEn R ExportHardLimitEn - uint16 0x00EB GeneralSoftLimitEn R GeneralHardLimitEn - uint16 0x00EC GeneralHardLimitEn R GeneralHardLimitEn - uint16 0x00ED wAcPowerLimit R wAcPowerLimit 1VA(X1) 10VA(X3) uint16 0x00EF ConnectSlop(X3) R ReconnectSlop 1% uint16	1 1 1 1 1
0x00E8 UFPL_RemovePoint R frequency remove point. 0.01Hz uint16 0x00E9 ExportSoftLimitEn R ExportSoftLimitEn - uint16 0x00EA ExportHardLimitEn R ExportHardLimitEn - uint16 0x00EB GeneralSoftLimitEn R GeneralSoftLimitEn - uint16 0x00EC GeneralHardLimitEn R GeneralHardLimitEn - uint16 0x00ED wAcPowerLimit R wAcPowerLimit 1VA(X1) 10VA(X3) uint16 0x00EE ConnectSlop(X3) R ConnectSlop 1% uint16 0x00EF ReconnectSlop(X3) R ReconnectSlop 1% uint16	1 1 1 1 1
Ox00EA ExportHardLimitEn R ExportHardLimitEn - uint16 Ox00EB GeneralSoftLimitEn R GeneralSoftLimitEn - uint16 Ox00EC GeneralHardLimitEn R GeneralHardLimitEn - uint16 Ox00ED wAcPowerLimit R wAcPowerLimit 1VA(X1) 10VA(X3) uint16 Ox00EE ConnectSlop(X3) R ConnectSlop 1% uint16 Ox00EF ReconnectSlop(X3) R ReconnectSlop 1% uint16	1 1 1 1
0x00EB GeneralSoftLimitEn R GeneralSoftLimitEn - uint16 0x00EC GeneralHardLimitEn R GeneralHardLimitEn - uint16 0x00ED wAcPowerLimit R wAcPowerLimit 1VA(X1) 10VA(X3) uint16 0x00E ConnectSlop(X3) R ConnectSlop 1% uint16 0x00EF ReconnectSlop(X3) R ReconnectSlop 1% uint16	1 1 1
0x00EC GeneralHardLimitEn R GeneralHardLimitEn - uint16 0x00ED wAcPowerLimit R wAcPowerLimit 1VA(X1) 10VA(X3) uint16 0x00EE ConnectSlop(X3) R ConnectSlop 1% uint16 0x00EF ReconnectSlop(X3) R ReconnectSlop 1% uint16	1 1 1
0x00ED wAcPowerLimit R wAcPowerLimit 1VA(X1) 10VA(X3) uint16 0x00EE ConnectSlop(X3) R ConnectSlop 1% uint16 0x00EF ReconnectSlop(X3) R ReconnectSlop 1% uint16 1W(X1) 1W(X1) 1W(X1) 1W(X1)	1
0x00ED wAcPowerLimit R wAcPowerLimit 10VA(X3) uint16 0x00EE ConnectSlop(X3) R ConnectSlop 1% uint16 0x00EF ReconnectSlop(X3) R ReconnectSlop 1% uint16 1W(X1) 1W(X1) 1W(X1) 1W(X1)	1
0x00EF ReconnectSlop(X3) R ReconnectSlop 1% uint16 1W(X1)	
1W(X1)	1
Ov00E0 HardEvportPower D HardEvportPower 1W(X1)	
HardexportPower R HardexportPower 10W(X3)	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
0x00FCSetPuPower3RSetPuPower31%uint16	1
0x00FDSetPuPower4RSetPuPower41%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	BatteryChargeMaxSoc	R	Charger upper limit	1%	uint16	1
0x010F	bBatterToEVCharge	R	0:Enable1:Disable	1	uint16	1
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	0:Off, 1:Low, 2:Middle, 3:Hight	1	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
	bP1_StartMinute	R	0-59	1	uint8(Hi)	
0x012A	bP1_StartHour	R	0-23	1	uint8(Lo)	1
	bP1_StopMinute	R	0-59	1	uint8(Hi)	
0x012B	bP1_StopHour	R	0-23	1	uint8(Lo)	1
	bP2_StartMinute	R	0-59	1	uint8(Hi)	
0x012C	bP2_StartHour	R	0-23	1	uint8(Lo)	1
	bP2_StopMinute	R	0-59	1	uint8(Hi)	
0x012D	bP2_StopHour	R	0-23	1	uint8(Lo)	1
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:ATS Control 2:Dry Contact	1	uint16	1
0x0132	ExternalGenMaxCharge	R	ExternalGenMaxCharge	1W(X1) 10W(X3)	uint16	1
0x0133 ~0x013D	Rev					
0x013E	485CommFunSelect	R	0:modbus 485 1:EV Charge 2:DadaHub 3:AdatptBoxG2 4: EVC& AdaptBoxG2 5: AdaptBoxG2 & Meter 6:EVC&AdaptBoxG2&Meter	1	uint16	1
0x013F	Rev					
0x0140	Start Gen Method	R	0:reference soc 1:immediately	1	uint16	1
0x0141	Switch on SoC	R	Switch on SoC(reference soc)	1%	uint16	1
0x0142	Switch off SoC	R	Switch off SoC(reference soc)	1%	uint16	1
0x0143	MaxRunTime	R	MaxRunTime	1Min	uint16	1
0x0144	Rev	R				



0x0145	MinRestTime	R	MinRestTime	1Min	uint16	1
00140	Allow Work start time Minute	R	Allow Work start time Minute	1M	uint8(Hi)	1
0x0146	Allow Work start time Hour	R	Allow Work start time Hour	1H	uint8(Lo)	1
0x0147	Allow Work stop time Minute	R	Allow Work start time Minute	1M	uint8(Hi)	1
0x0147	Allow Work stop time Hour	R	Allow Work start time Hour	1H	uint8(Lo)	1
0x0148	GenMinPower		0~60000	1W	uint16	1
0x0149 ~0x014E	Rev					
0x014F	PeakShaving Dischar Period. bP1_Start Minute	R	0-59	1M	uint8(Hi)	
0,0141	PeakShavingDischarPeriod.bP1_StartHour	R	0-23	1H	uint8(Lo)	
0x0150	PeakShaving Dischar Period. bP1_Stop Minute	R	0-59	1M	uint8(Hi)	
0x0130	PeakShavingDischarPeriod.bP1_StopHour		0-23	1H	uint8(Lo)	
0x0151	PeakShaving Dischar Period. bP2_Start Minute	R	0-59	1M	uint8(Hi)	
0,0131	PeakShavingDischarPeriod.bP2_StartHour	R	0-23	1H	uint8(Lo)	
	PeakShaving Dischar Period. bP2_Stop Minute	R	0-59	1M	uint8(Hi)	
0x0152	PeakShavingDischarPeriod.bP2_StopHour	R	0-23	1H	uint8(Lo)	
0x0153	PeakShaving.PeriodBPeakLimits1	R	Peak Shaving Mode Discharge Period 1 Power Limit	1W	uint8(Lo)	
0x0154	PeakShaving. PeriodDPeakLimits2	R	Peak Shaving Mode Discharge Period 2 Power Limit	1W	uint16	
0x0155	PeakShaving. PeriodAChargeFromGridEn	R	From Grid charging switch	1	uint16	
0x0156	PeakShaving .PeriodAChargePowerLimits	R	Charging power value from grid	1W	uint16	1
0x0157	PeakShaving .PeriodAMax_SOC	R	Maximum SOC charged from grid	1%	uint16	1
0x0158	PeakShaving .PeriodCReserved_SOC	R	Peak shaving mode reserved SOC	1%	uint16	1
0x0159	Rev					
0x015A	Rev					
0x015B	Rev					
0x015C	EVChargerAddr	R	0~255	1	uint16	1
0x015D	Rev					



0x015E	AdaptBoxG2Addr	R	0~255	1	uint16	1
0x015F	Rev					
0x0160	CTFalutEn	R	Cycle detection CT enable switch 0:Disable 1:Enable	1	uint16	1
0x0161	u16SuperBuckUpEn	R	Enable switch for EPS mode without battery 0:Disable 1:Enable	1	uint16	1
0x0162	GenCharge_StartMinute	R	0-59	1M	uint8(Hi)	1
000102	GenCharge_StartHour	R	0-23	1H	uint8(Lo)	1
0x0163	GenCharge_EndMinute	R	0-59	1M	uint8(Hi)	1
0.0103	GenCharge_EndHour	R	0-23	1H	uint8(Lo)	1
0x0164	GenDischarge_StartMinute	R	0-59	1M	uint8(Hi)	1
0.010+	Gen Discharge_Start Hour	R	0-23	1H	uint8(Lo)	1
00105	GenDischarge_EndMinute	R	0-59	1M	uint8(Hi)	1
0x0165	Gen Discharge_End Hour	R	0-23	1H	uint8(Lo)	1
0x0166	GenP2_SetEnable	R	0:Disable 1:Enable	1	uint16	1
0x0167	GenP2Charge_StartMinute	R	0-59	1M	uint8(Hi)	1
	GenP2Charge_StartHour	R	0-23	1H	uint8(Lo)	1
0x0168	GenP2Charge_EndMinute	R	0-59	1M	uint8(Hi)	1
0X0100	GenP2Charge_EndHour	R	0-23	1H	uint8(Lo)	1
00100	GenP2Discharge_StartMinute	R	0-59	1M	uint8(Hi)	1
0x0169	GenP2Discharge_StartHour	R	0-23	1H	uint8(Lo)	1
0x016A	GenP2Discharge_EndMinute	R	0-59	1M	uint8(Hi)	1
0,020,1	GenP2Discharge_EndHour	R	0-23	1H	uint8(Lo)	1
0x016B	ChargeFromGenEnable	R	0:Disable 1:Enable	1	uint16	1
0x016C	ChargeFromGen_ChargeSoC	R	10~100	1%	uint16	1
0x016D	FastInEPSEn	R	0:Disable 1:Enable	1	uint8	1
	TOUMode_TotalMinSoc	R	10~100	1%	uint8(Lo)	1
0x016E	TOUMode_WorkMode	R	0xA0: SelfUse 0xA1: AllowCharging 0xA2: ForceDischarging 0xA3: BatteryOff 0xA4: PeakShaving	1	uint8(Hi)	1
0x16F	TOUMode_SelfuseMinSOC	R	10~100	1%	uint16	1
57.201	TOUMode_ChargeFromGridEn	R	0xA0:Disable 0xA1:Enable	1	uint8(Lo)	1
0x170	reenvede_enargerrenteriazir			_	unito(20)	_ [

0x171	TOUMode_DischgPowerLimitRate	R	0~100	1%	uint8(Lo)	1
	TOUMode_DischargeMinSOC	R	10~100	1%	uint8(Hi)	1
0x172		R		4	111	2
0x173	TOUMode_PeakShavingLimit		-	1w	Uint32	۷
0x174	bShotoffEn (X3)		0: NO 1: NC(取反)	1	uint16	1
0x175	PowerFactor_Qu_VoltRatio2	R	PowerFactor_Qu_VoltRatio2	1%	uint16	1
0x176	PowerFactor_Qu_VoltRatio3		PowerFactor_Qu_VoltRatio3	1%	uint16	1
0x177	CTCutDownINV		0: Disable 1: Enbale	1	Uint16	1

Table 1-1 Data format description

Master request format							
	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 response							
Slave ID	1 byte	0x00~0xFF (Inverter default 0x01)					
Function code	1 byte	0x03					
Byte number	1 byte	2*N					



	Data	
	N*2byte	
Register date	Data MSB	
	Data LSB	
	2byte	
CRC	CRC MSB	
	CRC MSB	
Slave fault response		
Claura ID	11-11-	0x00~0xFF
Slave ID	1byte	(Inverter default 0x01)
Fault code	1byte	0x83
Abnormal code	1buto	0x01 or 0x02 or 0x03 or
Abhormal 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	Read Input Register(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	Version type describe x.y x = Uint8(Hi)	1	Uint16	1				
	0x0203	BMS_Slave2Version	R		1	Uint16	1				
	0x0204	BMS_Slave3Version	R		1	Uint16	1				
0x03	0x0205	BMS_Slave4Version	R		1	Uint16	1				
	0x0206	BMS_Slave5Version	R	y = Uint8(Low)	1	Uint16	1				
	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				

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	0x0211~ 0x0217	slave1_2SN	R	slave1_2SN	1	14char	7
	0x0218~ 0x021E	slave3_4SN	R	slave3_4SN	1	14char	7
	0x021F~ 0x0225	slave5_6SN	R	slave5_6SN	1	14char	7
	0x0226~ 0x022C	Slave7_8SN	R	Slave7_8SN	1	14char	7

0x03:Read Holding Register (Data Hub)

Function		Read Holding Register(Data Hub)									
code	register	variable	W/R	decription	unit	data format	lenth				
	0x3098~ 0x30A9	ReadBlockCheckResult	R	DataHub Upgrade results	1	Uint16	/				
002	0x30AA~ 0xF000	Rev									
0x03	0xF000	SetLength	R	number of Set item	1	Uint16	1				
	0xF001-	ReadSetValue	R	value of each setting item	/	Uint16	/				

Note:Only for internal device communication



0x03:Read Holding Register (EvCharger)

32bit data use little endian format

Function	Read Holding Register(EvCharger)								
Code	Register	Variable	W/R	descripton	Unit	Data format	Length		
0x03		Please refer to the	Docı	ument: 《(Solax)EVC ModbusR'	TU V3	.3》			



0x04:Read Input Register

32bit data use little endian format

		F	Read Ir	nput Register			
Function code	Register	Variable	W/R	Decription	Unit	Data format	Lenth
	0x0000	GridVoltage (X1)	R	GridVoltage	0.1V	uint16	1
	0x0001	GridCurrent (X1)	R	GridCurrent	0.1A	int16	1
	0x0002	GridPower (X1)	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(X1)	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
	0x000D	Pv1VoltFaultValue	R	Pv1VoltFaultValue	0.1V	uint16	1
	0x000E	Pv2VoltFaultValue	R	Pv2VoltFaultValue	0.1V	uint16	1
	0x000F	GfciFaultValue	R	GfciFaultValue	1mA	uint16	1
0X04	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 2: stop	-	uint16	1
	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



		1	1	1		
0x001F	REV	<u> </u>				
0x0020	OutputEnergy_Charge_today	R	OutputEnergy_Charge_today	0.1kWh 0.1kWh	uint16	1
0x0021	InputEnergy_Charge.LSB	R	R InputEnergy_Charge		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	REV					
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	Table 2-0 Bivis error code	-	uint16	1
0x0046			Feedin power is obtained from Meter or CT. (Postive mean generate			
0×0047	feedin_power	R	power; Negative mean consumed power) (0x46:LSB,0x47:MSB)	1W	int32	2
0x0048	feedin_energy_total(meter)	R	energy to the grid	0.01kWh	uint32	2
0x0049	iscam_onergy_total(meter)	1\	(0x48:LSB,0x49:MSB)	O.OIRVVII	GIIILUZ	
0x004A 0x004B	consum_energy_total(meter)	R	energy form the grid (0x4A:LSB,0x4B:MSB)	0.01kWh	uint32	2
0x004C	Off-gridVoltage(X1)	R	Off-grid Voltage	0.1V	uint16	1
0x004D	Off-gridCurrent (X1)	R	Off-grid Current	0.1A	uint16	1
0x004E	Off-gridPower(X1)	R	Off-grid power	1VA	uint16	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	-	Uint16	1



0x0052 0x0053	Etotal_togrid	R	Total Energy (Inverter AC Port) (0x52:LSB,0x53:MSB)	0.1kWh	uint32	2
0x0054	Lock State	R	0:locked 1:unlocked	-	uint16	1
0x0055	DEV	_	DEV			17
~0x0065	REV	R	REV	-	uint16	17
0x0066	BusVolt		BusVolt	0.1V	uint16	1
0x0067	wDcvFaultVal		wDcvFaultVal	0.1V	uint16	1
0x0068	wOverLoadFaultval	R	wOverLoadFaultval	1W	uint16	1
0x0069	wBatteryVoltFaultVal	R	wBatteryVoltFaultVal	0.1V	uint16	1
0x006A	GridVoltage_R (X3)	R	GridVoltage_R	0.1V	uint16	1
0x006B	GridCurrent_R (X3)	R	GridCurrent_R	0.1A	int16	1
0x006C	GridPower_R (X3)	R	GridPower_R	1W	int16	1
0x006D	GridFrequency_R (X3)	R	GridFrequency_R	0.01Hz	uint16	1
0x006E	GridVoltage_S (X3)	R	GridVoltage_S	0.1V	uint16	1
0x006F	GridCurrent_S (X3)	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 (X3)	R	GridVoltage_T	0.1V	uint16	1
0x0073	GridCurrent_T (X3)	R	GridCurrent_T	0.1A	int16	1
0x0074	GridPower_T (X3)	R	GridPower_T	1W	int16	1
0x0075	GridFrequency_T (X3)	R	GridFrequency_T	0.01Hz	uint16	1
0x0076	Off-grid_Volt_R (X3)	R	Off-grid_Volt_R	0.1V	uint16	1
0x0077	Off-grid_Current_R (X3)	R	Off-grid_Current_R	0.1A	uint16	1
0x0078	Off-grid_PowerActive_R (X3)	R	Off-grid_PowerActive_R	1W	int16	1
0x0079	Off-grid_PowerS_R (X3)	R	Off-grid_PowerS_R	1VA	uint16	1
0x007A	Off-grid_Volt_S (X3)	R	Off-grid_Volt_S	0.1V	uint16	1
0x007B	Off-grid_Current_S (X3)	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(X3)	R	Off-gridPowerS_S	1VA	uint16	1
0x007E	Off-grid_Volt_T (X3)	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 ~0x0083	FeedinPower_Rphase (X3)	R	FeedinPower_Rphase (meter/CT) (082:LSB,0x83:MSB)	1W	int32	2



0x0084 ~0x0085	FeedinPower_Sphase (X3)	R	FeedinPower_Sphase (meter/CT) (0x84:LSB,0x85:MSB)	1W	int32	2
0x0086 ~0x0087	FeedinPower_Tphase (X3)		FeedinPower_Tphase (meter/CT) (0x86:LSB,0x87:MSB)	1W	int32	2
0x0088 ~0x0089	On-gridRunTime	R	On-gridRunTime (0x88:LSB,0x89:MSB)	0.1h	int32	2
0x008A ~0x008B	Off-gridRunTime	R	Off-gridRunTime (0x8A:LSB,0x8B:MSB)	0.1h	int32	2
0x008C ~0x008D	REV	R	REV	-	uint16	1
0x008E ~0x008F	Off-gridYieldTotal	R	Off-gridYieldTotal (0x8E:LSB,0x8F:MSB)	0.1kWh	uint32	2
0x0090	Off-gridYieldToday	R	Off-gridYieldToday	0.1kWh	uint16	1
0x0091	J ,		EchargeToday (Inverter AC Port)	0.1kWh	uint16	1
0x0092 ~0x0093	EchargeTotal	R	EchargeTotal (Inverter AC Port) (0x92:LSB,0x93:MSB)	0.1kWh	uint32	2
0x0094 ~0x0095	:EnergyTotal	R	4EnergyTotal (0x94:LSB,0x95:MSB)	0.1kWh	uint32	2
0x0096	SolarEnergyToday	R	SolarEnergyToday	0.1kWh	uint16	1
0x0097	REV	R	-	-	uint16	1
0x0098 ~0x0099	feedin_energy_today	R	energy to the grid (meter) (0x98:LSB,0x99:MSB)	0.01kWh	uint32	2
0x009A ~0x009B	consum_energy_today	R	energy form the grid (meter) (0x9A:LSB,0x9B:MSB)	0.01kWh	uint16	1
0x009C	InvVoltR(X3)	R	InvVoltR(X3)	0.1V	uint16	1
0x009D	InvVoltS(X3)	R	InvVoltS(X3)	0.1V	uint16	1
0x009E	InvVoltT(X3)	R	InvVoltT(X3)	0.1V	uint16	1
0x009F ~0x00A7	Rev	R	-	-	uint16	12
0x00A8 0x00A9	feedin_power_Meter2	R	power to the grid (0xA8:LSB,0xA9:MSB)	1W	int32	2
0x00AA 0x00AB	feedin_energy_total_Meter2	R	energy to the grid (0xAA:LSB,0xAB:MSB)	0.01kWh	uint32	2
0x00AC 0x00AD	consum_energy_total_Meter2	R	energy form the grid (0xAC:LSB,0xAD:MSB)	0.01kWh	uint32	2



0.0045						
0x00AE 0x00AF	feedin_energy_today_Meter2	R	energy to the grid (0xAE:LSB,0xAF:MSB)	0.01kWh	uint16	1
0x00B0 0x00B1	consum_energy_today_Meter2		energy form the grid (0xB0:LSB,0xB1:MSB)	0.01kWh	uint16	1
0x00B2 0x00B3	FeedinPower_Rphase_Meter2	R	FeedinPower_Rphase(X3) (0xB2:LSB,0xB3:MSB)	1W	int32	2
0x00B4 0x00B5	FeedinPower_Sphase_Meter2	R	FeedinPower_Sphase(X3) (0xB4:LSB,0xB5:MSB)	1W	int32	2
0x00B6 0x00B7	FeedinPower_Tphase_Meter2	R	FeedinPower_Tphase(X3) (0xB6:LSB,0xB7:MSB)	1W	int32	2
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°C	int16	1
0x00BB	Battery_Tem_Low	R	Battery_Tem_Low	0.1°C	int16	1
0x00BC	Cell_Voltage_High		Cell_Voltage_High	0.001V	Uint16	1
0x00BD	Cell_Voltage_Low		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		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 ~0x00FF	Rev	R	-	-	uint16	70



0x0100	ModbusPowerControl	R	0:disable remote control 1:enable power control 2:enable electric quantity control 3:enable SOC target control 4: Push Power - Positive/Negative Mode 5: Push Power -Zero Mode 6: Self Consume Charge- Discharge Mode 7: Self Consume Charge Only Mode	1	uint16	1
0x0101	TargetFinishFlag	R	0:unfinished 1:finish	=	uint16	1
0x0102 0x0103	ActivePowerTarget	R	ActivePowerTarget	1W	int32	2
0x0104 0x0105	wReactivePowerTarget	R	wReactivePowerTarget	1Var	int32	2
0x0106 0x0107	wActivePowerReal	R	wActivePowerReal (0x106:LSB,0x107:MSB)	1W	int32	2
0x0108 0x0109	wReactivePowerReal	R	wReactivePowerReal (0x108:LSB,0x109:MSB)	1Var	int32	2
0x010A 0x010B	wActivePower_Upper	R	wActivePower_Upper (0x10A:LSB,0x10B:MSB)	1W	int32	2
0x010C 0x010D	── wActivePower Lower		wActivePower_Lower (0x10C:LSB,0x10D:MSB)	1W	int32	2
0x010E 0x010F	wReactivePowe_Upper	R	wReactivePowe_Upper (0x10E:LSB,0x10F:MSB)	1Var	int32	2
0x0110 0x0111	wReactivePower_Lower	R	wReactivePower_Lower (0x110:LSB,0x111:MSB)	1Var	int32	2
0x0112 0x0113	TargetEnergy	R	TargetEnergy	1Wh	int32	2
0x0114 0x0115	Charge_Discharg_Power	R	Charge_Discharg_Power (0x114:LSB,0x115:MSB)	1W	int32	2
0x0116 0x0117	Chargeable Electric Capacity	R	ChargeableElectricCapacity (0x116:LSB,0x117:MSB)	1Wh	uint32	2
0x0118 0x0119	- DischargeableElectricCapacity		DischargeableElectricCapacity (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
0x0121	BMS_RestartFlag	R	0:Intial 1:Restert	1	uint16	1
0x0122	REV For VPP					
~0x0134	REV FOI VPP					

Table 2-1 Data format description

Master request format					
	Bytes number	Content format			
Slave ID	1 byte	0x00~0xFF (Inverter default 0x01)			
Function code	1 byte	0x04			
Start register address	2 byte Address MSB Address LSB	0x0000-0xFFFF			
Register number		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				
Slave fault response	Slave fault response				
Slave ID	1byte	0x00~0xFF			



		(Inverter default 0x01)
Fault code	1byte	0x84
Abnormalanda	1by do	0x01 or 0x02 or 0x03 or
Abnormal code	1byte	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		
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	DCV OCP Fault
	BIT10	SW OCP Fault
D)/754	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
BYTE2	BIT19	Fan Fault
BYIEZ	BIT20	Low Temp Fault
	BIT21	Parallel Fault
	BIT22	Hard Limit Fault
	BIT23	INV Volt Sample Fault
	BIT24	Inner Comm Fault
	BIT25	INV EEPROM Fault
	BIT26	RCD Fault
5)(750	BIT27	Grid Relay Fault
BYTE3	BIT28	Off-grid Relay Fault
	BIT29	PV ConnDir Fault
	BIT30	Charger Relay Fault
		Earth Relay Fault

Table 2-4 Inverter error code(X1)

Inverter error code(X1)



Byte num	Bit	Fault
	BIT0	TZ Protect Fault
	BIT1	Grid Lost Fault
	BIT2	Grid Volt Fault
DVTE0	BIT3	Grid Freq Fault
BYTE0	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
D)/754	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
BYTE2	BIT19	Bat Power Low
DITEZ	BIT20	Low Temp Fault
	BIT21	Parallel Fault
	BIT22	Charger Relay Fault
	BIT23	BMS Lost
	BIT24	Inner Comm Fault
	BIT25	Fan Fault
	BIT26	Earth Relay Fault
DVTF2	BIT27	INV EEPROM Fault
BYTE3	51121	
	BIT28	RCD Fault
		RCD Fault Off-grid Relay Fault
	BIT28	



Table 2-5 Manager error code

	Manager error code					
Byte num	Bit	Fault				
	BIT0	Power Type Fault				
	BIT1	Port OC Waming				
	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	Bit	Fault			
num	Dit	rauit			
	BIT0	BMS_External_Err			
	BIT1	BMS_Internal_Err			
	BIT2	BMS_OverVoltage			
BYTE0	BIT3	BMS_LowerVoltage			
	BIT4	BMS_ChargeOCP			
	BIT5	BMS_DischargeOCP			
	BIT6	BMS_TemHigh			



	BIT7	BMS_TemLow
	BIT8	BMS_CellImbalance
	BIT9	BMS_Hardware_Protect
	BIT10	BMS_Circuit_Fault
BYTE1	BIT11	BMS_ISO_Fault
DITLI	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)

32bit data use little endian format

Function		Read Input Register(Selftest)										
code	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		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 0x018D	Ovp_Outcome_TripValue_T(X3) Ovp_Outcome_Timel_T(X3)	R R		0.1V 1ms	uint16 uint16	1					
	OYOTOD	Ovp_Outcome_timet_t(\times)	ľζ		T1112	anitto	Τ					



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
0x0195	Uvp_Outcome_Time_S(X3)	R		1ms	uint16	1
0x0196	Uvp_Outcome_Sample_T(X3)	R		0.1V	uint16	1
0x0197	Uvp_Outcome_TripValue_T(X3)	R		0.1V	uint16	1
0x0198	Uvp_Outcome_Time_T(X3)	R	R	1ms	uint16	1
0x0199	UvpRestric_Threshold_Target	R		0.1V	uint16	1
0x019A	UvpRestric_Threshold_Time	R		1ms	uint16	1
0x019B	UvpRestric_Outcome_Sample_R	R		0.1V	uint16	1
0x019C	UvpRestric_Outcome_TripValue_R	R		0.1V	uint16	1
0x019D	UvpRestric_Outcome_Time_R	R		1ms	uint16	1
0x019E	UvpRestric_Outcome_Sample_S(X3)	R		0.1V	uint16	1
0x019F	UvpRestric_Outcome_TripValue_S(X3)	R		0.1V	uint16	1
0x01A0	UvpRestric_Outcome_Time_S(X3)	R		1ms	uint16	1
0x01A1	UvpRestric_Outcome_Sample_T(X3)	R		0.1V	uint16	1
0x01A2	UvpRestric_Outcome_TripValue_T(X3)	R		0.1V	uint16	1
0x01A3	UvpRestric_Outcome_Time_T(X3)	R		1ms	uint16	1
0x01A4	Ofp_Threshold_Target	R		0.01Hz	uint16	1
0x01A5	Ofp_Threshold_Time	R		1ms	uint16	1
0x01A6	Ofp_Outcome_Sample_R	R		0.01Hz	uint16	1
0x01A7	Ofp_Outcome_TripValue_R	R		0.01Hz	uint16	1
0x01A8	Ofp_Outcome_Time_R	R		1ms	uint16	1
0x01A9	Ofp_Outcome_Sample_S(X3)	R	Ofp(81>.S1)test	0.01Hz	uint16	1
0x01AA	Ofp_Outcome_TripValue_S(X3)	R		0.01Hz	uint16	1
0x01AB	Ofp_Outcome_Time_S(X3)	R		1ms	uint16	1
0x01AC	Ofp_Outcome_Sample_T(X3)	R		0.01Hz	uint16	1
0x01AD	Ofp_Outcome_TripValue_T(X3)	R		0.01Hz	uint16	1
0x01AE	Ofp_Outcome_Time_T(X3)	R		1ms	uint16	1
0x01AF	Ufp_Threshold_Target	R		0.01Hz	uint16	1
0x01B0	Ufp_Threshold_Time	R	Ufp(81<.S1)test	1ms	uint16	1
0x01B1	Ufp_Outcome_Sample_R	R		0.01Hz	uint16	1



0x01B2	Ufp_Outcome_TripValue_R	R		0.01Hz	uint16	1
0x01B3	Ufp_Outcome_Time_R	R]	1ms	uint16	1
0x01B4	Ufp_Outcome_Sample_S(X3)	R		0.01Hz	uint16	1
0x01B5	Ufp_Outcome_TripValue_S(X3)	R		0.01Hz	uint16	1
0x01B6	Ufp_Outcome_Time_S(X3)	R		1ms	uint16	1
0x01B7	$Ufp_Outcome_Sample_T(X3)$	R		0.01Hz	uint16	1
0x01B8	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	Ofp2(81>.S2)test	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	R R R	0.01Hz	uint16	1
0x01C4	OfpRestric_Outcome_Time_T(X3)	R		1ms	uint16	1
0x01C5	UfpRestric_Threshold_Target	R		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	Ufp2(81<.S2)test	0.01Hz	uint16	1
0x01CB	UfpRestric_Outcome_TripValue_S(X3)	R		0.01Hz	uint16	1
0x01CC	UfpRestric_Outcome_Time_S(X3)	R	Ufp2(81<.S2)test	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	Ovp10(59.S1)test		0.1V	uint16	1
0x01D3	Ovp10mAvg_Outcome_TripValue_R	R	O v b 10(03.01)(62(0.1V	uint16	1
0x01D4	Ovp10mAvg_Outcome_Time_R	R		1s	uint16	1
0x01D5	Ovp10mAvg_Outcome_Sample_S(X3)	R		0.1V	uint16	1

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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)

32bit data use little endian format

Function	3201	Read Input Register(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 1D	1					
	0x01E0 0x01E1	InvActivePower_R_All	R	InvActivePower_R_AII	1W	int32	2					
	0x01E2 0x01E3	InvActivePower_S_All	R	InvActivePower_S_All	1W	int32	2					
	0x01E4 0x01E5	InvActivePower_T_All	R	InvActivePower_T_All	1W	int32	2					
0x04	0x01E6 0x01E7	InvReactiveOrApparentPower_R_AII	R	InvReactiveOrApparentPower_R_AII	1VA	int32	2					
	0x01E8 0x01E9	InvReactiveOrApparentPower_S_All	R	InvReactiveOrApparentPower_S_AII	1VA	int32	2					
	0x01EA 0x01EB	InvReactiveOrApparentPower_T_All	R	InvReactiveOrApparentPower_T_AII	1VA	int32	2					
	0x01EC 0x01ED	InvCurrent_R_All	R	InvCurrent_R_All	0.1A	int32	2					
	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	PvPower_ChannelA_All	R	PvPower_ChannelA_All	1W	uint32	2					



	0x01F3						
	0x01F4	DyDower Channell All	R	DyDower Channell All	1\\/	uint32	2
	0x01F5	PvPower_ChannelB_All	K	PvPower_ChannelB_All	TVV	uiiitsz	2
	0x01F6	PvCurrent_ChannelA_All	R	PvCurrent_ChannelA_All	0.14	uint32	2
	0x01F7	PVCurrent_ChannelA_All	K	PVCurrent_ChannerA_Aii	U.1A	umtsz	۷
	0x01F8	PvCurrent_ChannelB_All	R	PvCurrent_ChannelB_All	0.1A	uint32	2
	0x01F9		ļ				_
	0x01FA	BatPower_All	R	BatPower_All	1W	int32	2
	0x01FB						_
ļ	0x01FC	BatCurrent_All	R	BatCurrent_All	0.1A	int32	2
L	0x01FD			_			
-	0x01FE	ChargePowerLimit_All	R	ChargePowerLimit_All	1W	int32	2
-	0x01FF		-				
- 1	0x0200	DischargePowerLimit_All	R	DischargePowerLimit_All	1W	int32	2
-	0x0201	-	-				
-	0x0202	Rev	R	Rev	-	uint16	1
- 1	0x0203	Rev	R	Rev	-	uint16	1
- 1	0x0204	InvActivePower_R	R		1W	int16	1
	0x0205	InvActivePower_S	R		1W	int16	1
	0x0206	InvActivePower_T	R		1W	int16	1
- 1	0x0207	InvReactiveOrApparentPower_R	R		1VA	int16	1
L	0x0208	InvReactiveOrApparentPower_S	R		1VA	int16	1
L	0x0209	InvReactiveOrApparentPower_T	R		1VA	int16	1
L	0x020A	InvCurrent_R	R			int16	1
	0x020B	InvCurrent_S	R				1
	0x020C	InvCurrent_T	R		0.1A		1
	0x020D	PvPower_ChannelA	R	slave1 data		uint16	1
	0x020E	PvPower_ChannelB	R			uint16	1
	0x020F	PvVoltage_ChannelA	R			uint16	1
	0x0210	PvVoltage_ChannelB	R		0.1V	uint16	1
	0x0211	PvCurrent_ChannelA	R		0.1A	uint16	1
	0x0212	PvCurrent_ChannelB	R			uint6	1
	0x0213	BatPower	R			uint16	1
	0x0214	BatVoltage	R			uint16	1
	0x0215	BatCurrent	R			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	Kev	1			unitoz	۷
0x021C	Rev	R		1	uint32	2
0x021D	Nev				unitoz	
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		1W	uint16	1
0x022E	BatVoltage	R		0.1V	uint16	1
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	R R R	1	uint32	2
0x0235	Nev				unitoz	
0x0236	Rev	R		1	uint32	2
0x0237	1 (V				annto2	_
0x0238	InvActivePower_R	R		1W	int16	1
0x0239	InvActivePower_S	R	slave3 data	1W	int16	1
0x023A	InvActivePower_T	R		1W	int16	1



0x023	B InvReactiveOrApparentPower_R	R		1VA	int16	1
0x023	C InvReactiveOrApparentPower_S	R		1VA	int16	1
0x023	D InvReactiveOrApparentPower_T	R		1VA	int16	1
0x023	E InvCurrent_R	R		0.1A	int16	1
0x023	F InvCurrent_S	R		0.1A	int16	1
0x024	0 InvCurrent_T	R		0.1A	int16	1
0x024	1 PvPower_ChannelA	R		1W	uint16	1
0x024	2 PvPower_ChannelB	R		1W	uint16	1
0x024	3 PvVoltage_ChannelA	R		0.1V	uint16	1
0x024	4 PvVoltage_ChannelB	R		0.1V	uint16	1
0x024	5 PvCurrent_ChannelA	R		0.1A	uint16	1
0x024	6 PvCurrent_ChannelB	R		0.1A	uint16	1
0x024	7 BatPower	R		1W	uint16	1
0x024	8 BatVoltage	R		0.1V	uint16	1
0x024	9 BatCurrent	R		0.1A	uint16	1
0x024	A ChargePowerLimit	R		1W	uint16	1
0x024	B DischargePowerLimit	R		1W	uint16	1
0x024	C BatFaultMessage	R		1	uint16	1
0x024	D BatCapacity	R		1%	uint16	1
0x024	Rev	R		1	uint32	2
0x024	F				unitoz	
0x025	0 Rev	R		1	uint32	2
0x025	1	IX			unitoz	۷
0x025	2 InvActivePower_R	R		1W	int16	1
0x025	3 InvActivePower_S	R		1W	int16	1
0x025	4 InvActivePower_T	R		1W	int16	1
0x025	5 InvReactiveOrApparentPower_R	R		1VA	int16	1
0x025	6 InvReactiveOrApparentPower_S	R		1VA	int16	1
0x025	7 InvReactiveOrApparentPower_T	R		1VA	int16	1
0x025	8 InvCurrent_R	R	slave4 data	0.1A	int16	1
0x025	9 InvCurrent_S	R		0.1A	int16	1
0x025	A InvCurrent_T	R		0.1A	int16	1
0x025	B PvPower_ChannelA	R		1W	uint16	1
0x025	C PvPower_ChannelB	R		1W	uint16	1
0x025	D PvVoltage_ChannelA	R		0.1V	uint16	1
0x025	E PvVoltage_ChannelB	R		0.1V	uint16	1



0.0055	D. C. and Channella	T		0.14	10	1
0x025F	PvCurrent_ChannelA	R			uint16	1
0x0260	PvCurrent_ChannelB	R			uint16	1
0x0261	BatPower	R			uint16	1
0x0262	BatVoltage	R			uint16	1
0x0263	BatCurrent	R			uint16	1
0x0264	ChargePowerLimit	R			uint16	1
0x0265	DischargePowerLimit	R		1W	uint16	1
0x0266	BatFaultMessage	R		1	uint16	1
0x0267	BatCapacity	R		1%	uint16	1
0x0268	Rev	R		1	uint32	2
0x0269					anicoz	_
0x026A	Rev	R		1	uint32	2
0x026B	ive v				diritoz	
0x026C	InvActivePower_R	R		1W	int16	1
0x026D	InvActivePower_S	R		1W	int16	1
0x026E	InvActivePower_T	R		1W	int16	1
0x026F	InvReactiveOrApparentPower_R	R		1VA	int16	1
0x0270	InvReactiveOrApparentPower_S	R		1VA	int16	1
0x0271	InvReactiveOrApparentPower_T	R		1VA	int16	1
0x0272	InvCurrent_R	R		0.1A	int16	1
0x0273	InvCurrent_S	R		0.1A	int16	1
0x0274	InvCurrent_T	R		0.1A	int16	1
0x0275	PvPower_ChannelA	R		1W	uint16	1
0x0276	PvPower_ChannelB	R		1W	uint16	1
0x0277	PvVoltage_ChannelA	R	slave5 data	0.1V	uint16	1
0x0278	PvVoltage_ChannelB	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
0x027F	DischargePowerLimit	R		1W	uint16	1
0x0280	BatFaultMessage	R		1	uint16	1
0x0281	BatCapacity	R		1%	uint16	1
			1			



0x0283						
0x0284	Rev	R		1	uint32	2
0x0285	Kev	K			uiiitaz	۷
0x0286	InvActivePower_R	R		1W	int16	1
0x0287	InvActivePower_S	R		1W	int16	1
0x0288	InvActivePower_T	R		1W	int16	1
0x0289	InvReactiveOrApparentPower_R	R		1VA	int16	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	slave6 data	0.1V	uint16	1
0x0293	PvCurrent_ChannelA	R	Slaveo data	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
0x029B	BatCapacity	R		1%	uint16	1
0x029C	Rev	R		1	uint32	2
0x029D	TO V				diritoz	
0x029E	Rev	R		1	uint32	2
0x029F		.`.			GIII ICOL	_
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	slave7 data	1VA		1
0x02A4	InvReactiveOrApparentPower_S	R		1VA	int16	1
0x02A5	InvReactiveOrApparentPower_T	R		1VA		1
0x02A6	InvCurrent_R	R		0.1A	int16	1



		_			1	
0x02A7	InvCurrent_S	R		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
0x02AF	BatPower	R		1W	uint16	1
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
0x02B6	Rev	R		1	uint32	2
0x02B7	KEV	K			umtsz	۷
0x02B8	Rev	R		1	uint32	2
0x02B9	IVGV	IX			unitaz	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	slave8 data	0.1A	int16	1
0x02C3	PvPower_ChanneIA	R		1W	uint16	1
0x02C4	PvPower_ChannelB	R		1W	uint16	1
0x02C5	PvVoltage_ChannelA	R		0.1V	uint16	1
0x02C6	PvVoltage_ChannelB	R		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
0x02CE	BatFaultMessage	R		1	uint16	1
0x02CF	BatCapacity	R		1%	uint16	1
0x02D0	Rev	R		1	uint32	2
0x02D1	KeV	K		1	ullitaz	۷
0x02D2	Rev	R		1	uint32	2
0x02D3	KeV	K		1	ullitaz	۷
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	R		0.1V	uint16	1
0x02E0	PvVoltage_ChannelB	R	alayaO data	0.1V	uint16	1
0x02E1	PvCurrent_ChannelA	R	slave9 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	R	⊢	1%	uint16	1
0x02EA	Day	D		1	uint32	2
0x02EB	Rev	K		1	umtsz	
0x02EC	Day	D		1	uin+22	2
0x02ED	Rev	R		1	uint32	



0x04:Read Input Register(Data Hub)

F at: a		Read Inpu	t Regis	ster(Data Hub)			
Function code	register	variable	W/R	decription	unit	data format	lenth
	0x06DF	total_length	R		1	uint16	1
	0x06E0	PallerLen	R		1	uint16	1
	0x06E1	bDHWakeUpSlaver	R		1	uint16	1
	0x06E2	bDHMasterBmsSwitchState	R		1	uint16	1
	0x06E3	bDHMasterBmsComState	R		1	uint16	1
	0x06E4	bDHMasterBypassConfig	R		1	uint16	1
	0x06E5	bDHMasterBypassWorkState	R		1	uint16	1
	0x06E6	bDHExternalGen	R		1	uint16	1
	0x06E7	bDHMasterRunMode	R		1	uint16	1
	0x06E8	bDHMasterCom485State	R	Only X1	1	uint16	1
	0x06E9	bDHBatteryChargeMaxSoc	R	Only X1			
	0x06EA~0x06FF	Rev[22]	R		1	uint16	1
	0x0700	ChargeLen	R		1	uint16	1
	0x0701	RefPowerToEV	R		1	uint16	1
	0x0702	D	R		1		0
	0x0703	PowerToEV	R		1	uint32	2
	0x0704	PvRef	R		1	uint16	1
0x04	0x0705	FeedinPower_Rphase(X3)/	R	Ev Charge	1		2
	0x0706	FeedinPower(X1)	R		1	uint32	2
	0x0707	5 I' D 0 I ((0)	R		1	00	0
	0x0708	FeedinPower_Sphase(X3)	R		1	uint32	2
	0x0709	F	R		1		0
	0x070A	FeedinPower_Tphase(X3)	R		1	uint32	2
	0x070B~0xEEFF	Rev	R		1	\	\
	0xEF00	bGetChargePower	R	CurrentChargingPower Only X3	1	uint16	1
	0xEF01~0xEFFF Rev				1	uint16	1
	0xF000-0xF01D	xF000-0xF01D Error		Error/Warning data	1	Uint16	30
	0xF01E	RealTime Length	R	number of Set item	1	Uint16	1
	0xF01F-	RealTime Data	R	RealTime Data	1	Uint16	Ν

Note:Only for internal device communication



0x04:Read Input Register(EvCharger)

32bit data use little endian format

F		Read Input Register(EvCharger)									
Function Code	Register	Variable	W/R	descripton	Unit	Data format	Length				
0x04		Please refer to the Document: 《(Solax)EVC ModbusRTU V3.3》									



0x06:Write Single Register

F			Write	Single Register				
Function Code	Register	Variable	W/ R	Decription	Unit	Data format	len gth	EE Save
	0x0000	UnlockPassword	W	UnlockPassword	1	uint16	1	
	0x0001	Reconnection Time	W	(15~600)	1s	uint16	1	*
	0x0002	CheckingTime	W	0~1500(X1) 0~1000(X3)	1s	uint16	1	*
	0x0003	Adjust_Battery_U	W	(0~3900)	0.1V	uint16	1	*
	0x0004	Adjust_Battery_I	W	Postive mean charge; negative mean discharge. (-350~350)	0.1A	int16	1	*
	0x0005	Vac_Min	W	Vac_Min (230~3000)(X1) (250~2300)(X3)	0.1V	uint16	1	*
	0x0006	Vac_Max	W	Vac_Max (1000~3000)(X1) (1270~3000)(X3)	0.1V	uint16	1	*
	0×0007	Fac_Min	W	Fac_Min (4000~6500)	0.01Hz	uint16	1	*
0X06	0×0008	Fac_Max	W	Fac_Max (4500~7000)(X1) (4000~7000)(X3)	0.01Hz	uint16	1	*
	0x0009	SafetyCode	W	Safety type 0: VDE0126 1: VDE4105 2: AS 4777_2020_A 3: G98/1 (X1/K3) 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		uint16	1	*



	POWER			
		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		
		40: Chile2021 MT_R		
		41: Chile2021 MT_U		
		42: Czech_2021_2		
		43: G98/NI-1		
		44: G99/NI-1		
		45: G99/NI_Type B		
		46: CQC		
		47: LA_3P_380		
		48: LA_3P_220		
		(X3)		
		(X1)		
		22:EN50438_Ireland		
		23:Philippines		
		24:Czech PPDS_2020		
		25:Czech_50438		
		26: EN50549_EU		
		27: Denmark2019_E		
		28:RD1699_lsland		
		29: EN50549_Poland		
		23. Li 130343_i Olaffu		



			30:MEA_Thailand 31:PEA_Thailand 32:ACEA 33:AS 4777_2020_B 34:AS 4777_2020_C 35:User Define 36:EN50549_Romania 37: G98/NI-1 38: G99/NI-1 39: Chile2021 MT_R 40: Chile2021 MT_U 41: Slovenia				
0x000A	MateBoxEnable	W	0: Disable 1:Enable	1	uint16	1	*
0x000B	Grid_10Min_high	W	Grid_10Min_high (1500~3000)	0.1V	uint16	1	*
0x000C	Vac_Min_slow_protect	W	Vac_Min_slow_protect (1500~3000) (X1) (250~2300) (X3)	0.1V	uint16	1	*
0x000D	Vac_Max_slow_protect	W	Vac_Max_slow_protect (1000~3120)(X1) (1270~3000)(X3)	0.1V	uint16	1	*
0x000E	Fac_Min_slow_Protect	W	Fac_Min_slow_Protect (4000~6500)	0.01Hz	uint16	1	*
0x000F	Fac_Max_slow_Protect	W	Fac_Max_slow_Protect (4500~7000)(X1) (4000~7000)(X3)	0.01Hz	uint16	1	*
0x0010	DCI_Limit	W	DCI_Limit (20~1000)	1mA	uint16	1	*
0x0011	active_Power_Limit	W	active_Power_Limit (0~100)	0-100	uint16	1	*
0x0012	Adjust_Pv1_Current	W	Adjust_Pv1_Current (10~3000)	0.01A	uint16	1	*
0x0013	Adjust_Pv2_Current	W	Adjust_Pv2_Current (10~3000)	0.01A	uint16	1	*
0x0014	Adjust_Pv1_Volt	W	Adjust_Pv1_Volt (100~10000)	0.1V	uint16	1	*
0x0015	Adjust_Pv2_Volt	W	Adjust_Pv2_Volt (100~10000)	0.1V	uint16	1	*
0x0016	Adjust_AC_Current_R	W	Adjust_AC_Current_R (10~300)	0.1A	uint16	1	*



0x0017	Adjust_AC_Volt_R	W	Adjust_AC_Volt_R (1500~3000)(X1) (500~3000)(X3)	0.1V	uint16	1	*
0x0018 ~ 0x001A	REV	W	REV	_	uint16	1	
0x001B	MatchResistanceSet	W	0:disable 1:enable	_	uint16	1	*
0x001C	SystemON_OFF	W	0:OFF 1:ON	1	uint16	1	*
0x001D	FactoryReset	W	1 effect	1	unt16	1	
0x001E	Inverter_Clear_History	W	1 effect	1	uint16	1	
0x001F	CSolarhargerUseMode	W	0:Self use mode 1:Feed-in priority 2:Back up mode 3:Menual mode 4:Peak Shaving 5:TOU Mode	-	uint16	1	*
0x0020	Manual mode	W	0:Stop force charge&discharge 1:Force charge 2:Force discharge	1	uint16	1	
0x0021	wBattery1_Type	W	0: Lead Acid 1: Lithium	1%	unt16	1	*
0x0022	Charge_floatVolt	W	Lead-acid battery charge float voltage (X1:850~4000 X3:1600~ <mark>8000</mark>)	0.1V	uint16	1	*
0x0023	Discharge_CutVolt	W	Lead-acid battery discharge cut-off voltage (X1:850~4000 X3:1600~ <mark>8000</mark>)	0.1V	uint16	1	*
0x0024	Battery1_ChargeMaxCurrent	W	Lead-acid battery Charge MaxCurrent (0~300)	0.1A	uint16	1	*
0x0025	Battery1_DischargeMaxCurrent	W	Lead-acid battery discharge MaxCurrent (0~300)	0.1A	uint16	1	*
0x0026	wBatteryDischargeBackupVoltage	W	wBatteryDischargeBackupVolta ge (X1:850~4000 X3:1600~ <mark>8000</mark>)	0.1V	uint16	1	*
0x0027	CtType (X3)	R	0:100A 1:200A		uint16	1	*
0x0028	EpsDcvAdjEn(X3)		0: Disable 1: Enable	-	uint16	1	
0x0029	CalibGainInvVoltR(X3)	W	CalibGainInvVoltR(X3) (500~3000)(X3)	0.1V	uint16	1	*



0x002A	CalibGainInvVoltS(X3)	W CalibGainInvVoltS(X3) (500~3000)(X3) CalibGainInvVoltT(X3)		0.1V	uint16	1	*
0x002B	CalibGainInvVoltT(X3)	W	CalibGainInvVoltT(X3) (500~3000)(X3)	0.1V	uint16	1	*
0x002C	CalibEPSDcvAdjR(X3)	W	CalibEPSDcvAdjR(X3) (500~3000)(X3)	0.01V	int16	1	*
0x002D	CalibEPSDcvAdjS(X3)	W	CalibEPSDcvAdjS(X3) (500~3000)(X3)	0.01V	int16	1	*
0x002E	CalibEPSDcvAdjT(X3)	W	CalibEPSDcvAdjT(X3) (500~3000)(X3)	0.01V	int16	1	*
0x002F	ClearEnergy_Meter/CT_1	W	1 effect	1	uint16	1	
0x0030	Adjust_AC_Current_S (X3)	W	Adjust_AC_Current_S (10~300)	0.1A	uint16	1	*
0x0031	Adjust_AC_Volt_S (X3)	W	Adjust_AC_Volt_S (1500~3000)(X1) (500~3000)(X3)	0.1V	uint16	1	*
0x0032	Adjust_AC_Current_T (X3)	W	Adjust_AC_Current_T (10~300)	0.1A	uint16	1	*
0x0033	Adjust_AC_Volt_T (X3)	W	Adjust_AC_Volt_T W (1500~3000)(X1) (500~3000)(X3)		uint16	1	*
0x0034	Adjust_CT_Zero (X3)	W	1 effect	1	uint16	1	
0x0035	Adjust_CT_Power_R (X3)	W	0~65535	1W	uint16	1	*
0x0036	Adjust_CT_Power_S(X3)	W	0~65535	1W	uint16	1	*
0x0037	Adjust_CT_Power_T (X3)	W	0~65535	1W	uint16	1	*
0x0038	EpsPhaseSeqDetect	W	0:disable 1:enable	1	uint16	1	
0x0039	UserPassword	W	UserPassword 0000~9999	-	uint16	1	*
0x003A	Advance dPassword	W	AdvancedPassword 0000~9999	-	uint16	1	*
0x0041	Export control Factory_Limit	W	Export control User_Limit (0~60000)(X1) (0~30000)(X3)	1W(X1) 10W(X3)	uint16	1	*
0x0042	Export control User_Limit	W	Export control User_Limit (0~60000)(X1) (0~30000)(X3)	1W(X1) 10W(X3)	uint16	1	*
0x0043	Off-grid_Mute	W	0: disable 1:enable	1	uint16	1	*
0x0044	Off-grid_MinSoC	W	W 10~25		uint16	1	*
0x0045	Off-grid Frequncy	W	W 0: 50Hz 1:60HZ		uint16	1	
0x0046	AgeingMode	W	1:Enable 0:Disable	1	uint16	1	



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0x0047	Language	W	Language: 0:English 1:German 2:French 3:Polish 4:Spanish 5: Portuguese 6:Italian 7:chinese(BAN) 8:Ukrainian9:Brazil	1	uint16	1	*
0x0048	EnableMPPT	W	1:Enable 0:Disable	1	uint16	1	
0x0049	wTuvp_L2	W	TripTime_UnderVoltage_Level2 (0~10000)	1ms(X1) 10ms(X3)	uint16	1	*
0x004A	wTovp_L2	W	TripTime_OverVoltage_Level2 (0~10000)	1ms(X1) 10ms(X3)	uint16	1	*
0x004B	wTufp_L2	W	TripTime_UnderFrequency_Leve I2 (0~10000)	1ms(X1) 10ms(X3)	uint16	1	*
0x004C	wTofp_L2	W	TripTime_OverFrequency_Level2 (0~10000)	1ms(X1) 10ms(X3)	uint16	1	*
0x004D	wTuvp_L1	V	TripTime_UnderVoltage_Level1 0~50000(X1) 0~10000(X3)	1ms(X1) 10ms(X3)	uint16	1	*
0x004E	wTovp_L1	W	TripTime_OverVoltage_Level1 0~60000(X1) 0~10000(X3)	1ms(X1) 10ms(X3)	uint16	1	*
0x004F	wTufp_L1	W	TripTime_UnderFrequency_Leve I1 (0~10000)	1ms(X1) 10ms(X3)	uint16	1	*
0x0050	wTofp_L1	W	TripTime_OverFrequency_Level1 (0~10000)	1ms(X1) 10ms(X3)	uint16	1	*
0x0051	PVConnectipon	W	0: MULTI 1: COMM	1	uint16	1	*
0x0052	ShutDown	W	0:Disable 1:Enable	1	uint16	1	*
0x0053	MicroGrid	W	0:Disable 1:Enable	1	uint16	1	*
0x0054	Self Test start	W	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	1	
0x0055	Clear overload fault	W	Write 1 effcet	1	uint16	1	
0x0056	Bat_Awaken	W	Write 1 effcet (Lead-acid battery)	1	uint16	1	



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0x0057	OFPL_CurveType	W	0:Symmetry curve	1	uint16	1	*
0x0058	OFPL_Tstop	W	1:Asymmetry curve 0~600	1s	uint16	1	*
0x0059	OFPL_RemovePoint	W	4950~5500	0.01Hz	uint16	1	*
0.00033	OTT E_REMIOVELOUIL	VV	Over Frequency drop load	0.01112	diritio	Т	^
0x005A	OFPL_StartPoint	W	output start point 4950~5500	0.01Hz	uint16	1	*
0x005B	OFPL_SetRate	W	W drop output slope (2~12)		uint16	1	*
0x005C	OFPL_DelayTime	W	FreDroop Delay Time (0~2000)(X1) (0~1000)(X3)	1ms	uint16	1	*
0x005D	OFPL_fstop_disch	W	<mark>4950~5500</mark>	0.01Hz	uint16	1	*
0x005E	OFPL_fPmin	W	<mark>4950~5500</mark>	0.01Hz	uint16	1	*
0x005F	Reset_Mgr_EE	W	1:Reset normal configuration.	1	uint16	1	
0x0060	absorpt_voltage	W	Lead acide battery absorpt_voltage (X1:850~4000 X3:1600~ <mark>8000</mark>)	0.1V	uint16	1	*
0x0061	SelfUse_Discharge_MinSoC	W	10%~100%	1%	uint16	1	*
0x0062	SelfUse_NightCharge_Enable	W	0: Disable 1: Enable	1	uint16	1	*
0x0063	SelfUse_NightCharge_UpperSoC	W	This value will be enabled if SelfUse_NightCharge_Enable is 1. 10%~100%	1%	uint16	1	*
0x0064	Feedin_NightCharge_UpperSoC	W	10%~100%	1%	uint16	1	*
0x0065	Feedin_Discharge_MinSoC	W	10%~100%	1%	uint16	1	*
0x0066	BackUp_NightCharge_UpperSoC	W	30%~100%	1%	uint16	1	*
0x0067	BackUp_Discharge_MinSoC	W	<mark>15%</mark> ~100%	1%	uint16	1	*
0x0068	NightCharge_Period1_StartTime	W	StartHour	0~23	uint8(Hi)	1	*
0,0000	Nightenarge_r enou1_startnine	W	StartMinute	0~59	uint8(Lo)	1	^
0x0069	NightCharge Period1 EndTime	W	EndHour	0~23	uint8(Hi)	1	*
	Mgmenarge_r enour_thanne	W	EndMinute	0~59	uint8(Lo)		Ŷ
0x006A	Discharge_Period1_StartTime	W	StartHour	0~23	uint8(Hi)	1	*
	2.500.1d.1g0_1 0.10041_0td.111110	W	StartMinute	0~59	uint8(Lo)	_	
0x006B	Discharge_Period1_EndTime	W	EndHour	0~23	uint8(Hi)	1	*
		W	EndMinute	0~59	uint8(Lo)		
0x006C	Set_Chrg&DischrgPeriod2_Enable	W	1:Enable 0:Disable	1	uint16	1	*
0x006D	NightCharge_Period2_StartTimee	W	StartHour	0~23	uint8(Hi)	1	*
		W	StartMinute	0~59	uint8(Lo)		
0x006E	NightCharge_Period2_EndTime	W	EndHour	0~23	uint8(Hi)	1	*
		W	EndMinute	0~59	uint8(Lo)		



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0x006F	Discharge_Period2_ StartTime	W	StartHour	0~23	uint8(Hi)	1	*
		W	StartMinute	0~59	uint8(Lo)		
0x0070	Discharge_Period2_EndTime	W	EndHour	0~23	uint8(Hi)	1	*
		W	EndMinute	0~59	uint8(Lo)	_	
0x0071	MainBreakerCurrentLimit	W	10~100(X1) 10~250(X3)	1A	uint16	1	*
0x0072	PowerfactorMode	W	0: Off 1:Over Excited 2:Under Excited 3:Curve 4:Qu 5:Fix Q Power	1	uint16	1	*
0x0073	PowerfactorData	W	80~100	0.01	uint16	1	*
0x0074	PowerFactor_Curve_PF1	W	80~100	0.01	uint16	1	*
0x0075	PowerFactor_Curve_PF2	W	80~100	0.01	uint16	1	*
0x0076	PowerFactor_Curve_PF3	W	80~100	0.01	uint16	1	*
0x0077	PowerFactor_Curve_PF4	W	80~100	0.01	uint16	1	*
0x0078	PowerFactor_Curve_Power1	W 0~100		1%	uint16	1	*
0x0079	PowerFactor_Curve_Power2	W 0~100		1%	uint16	1	*
0x007A	PowerFactor_Curve_Power3	W	0~100	1%	uint16	1	*
0x007B	PowerFactor_Curve_Power4	W	0~100	1%	uint16	1	*
0x007C	PowerFactor_Curve_PfLockInPoint	W	105~110	0.01	uint16	1	*
0x007D	PowerFactor_Curve_PfLockOutPoint	W	90~98	0.01	uint16	1	*
0x007E	PowerFactor_Curve_3Tau	W	6~ <mark>180</mark>	1s	uint16	1	*
0x007F	PowerFactor_Qu_VoltRatio1	W	0~60	1%	uint16	1	*
0x0080	PowerFactor_Qu_VoltRatio4	W	-60~-30(X1) -60~0(X3)	1%	Int16	1	*
0x0081	PowerFactor_Qu_QuResponseV1	W	1800~2530(X1) 250~2300(X3)	0.1V	uint16	1	*
0x0082	PowerFactor_Qu_QuResponseV2	W	1800~2530(X1) <mark>250~2300(X3)</mark>	0.1V	uint16	1	*
0x0083	PowerFactor_Qu_QuResponseV3	W	2070~2650(X1) <mark>1270~3000(X3)</mark>	0.1V	uint16	1	*
0x0084	PowerFactor_Qu_QuResponseV4	W	2070~2650(X1) 1270~3000(X3)	0.1V	uint16	1	*
0x0085	PowerFactor_Qu_K	W	-100~100	<mark>1%</mark>	Int16	1	*
0x0086	PowerFactor_Qu_3Tau	W	<mark>6~180</mark>	1s	uint16	1	*
0x0087	PowerFactor_Qu_QuDelayTimer	W	0~30(X1) 0~200(X3)	1s	uint16	1	*
0x0088	PowerFactor_Qu_QuLockEn	W	{0,1}	1	uint16	1	*
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0x0089	PowerFactor_Qu_QuLockIn	W	0~20	1%	uint16	1	*
0x008A	PowerFactor_Qu_QuLockOut	W	0~20	1%	uint16	1	*
0x008B	PowerFactor_FixQPower	W	PowerFactor_FixQPower_Min ~PowerFactor_FixQPower_Max	1Var(X1) 10Var(X3)	int16	1	*
0x008C	InvVoltZeroAdj(X3)	W	1:Prepare for calibration W 2: start calibration 3: CheckCalibration results		uint16	1	
0x008D	PgridBias	W	0:Disable 1:Grid 2:INV	-	uint16	1	*
0x008E	EpsRestartSoc	W	W EpsRestartSoc		uint16	1	*
0x008F	485CommFunSelect	W	0:modbus 485 1:EV Charge 2:DadaHub 3:AdatptBoxG2 W 4: EVC& AdaptBoxG2 5: AdaptBoxG2 & Meter 6:EVC&AdaptBoxG2&Meter		uint16	1	*
0x0090	ConnectSlop(X3)	W	1~10000	1%	uint16	1	*
0x0091	ReconnectSlop(X3)	W	1~10000	1%	uint16	1	*
0x0092	UFPL_StartPoint	W	Under Frequency Safe load output start point <mark>4500~5050</mark>	0.01Hz	uint16	1	*
0x0093	UFPL_SetRate	W	Under Frequency drop output slope (2~12)	1%	uint16	1	*
0x0094	UFPL_DelayTime	W	FreDroopDelayTime (0~1000)	1ms	uint16	1	*
0x0095	UFPL_RemovePoint	W	<mark>4500~5050</mark>	0.01Hz	uint16	1	*
0x0096	UFPL_fstop_ch	W	<mark>4500~5050</mark>	0.01Hz	uint16	1	*
0x0097	UFPL_fPmax	W	4500~5050	0.01Hz	uint16	1	*
0x0098	ShadowFixFuncEnable2	R	0:Off, 1:Low, 2:Middle, 3:Hight	-	uint16	1	*
0x0099	HotStandbyEN	W	0:enable 1:disable	1	uint16	1	*
0x009A	ExtendBmsSetting	W	0:disable 1:enable	1	uint16	1	*
0x009B	ATE Test	W	1effect	1	uint16	1	
0x009C	wShadowFixFuncEnable	W	W 0:Off 1:Low 2:Middle 3:Hight		uint16	1	*
0x009D	ExternalSignal	W	ExternalSignal	1	uint16	1	*
0x009E	PhasePowerBalance (X3)	W	0:disable 1:enable	1	uint16	1	*
0x009F	OFPL_Wgra	W	W 500~10000		uint16	1	*
0x00A0	MeterFunction	W	0:disable 1:enable	1	uint16	1	*



0x00A1	Meter1_ID	W	Meter1 ID 1~200	1	uint16	1	*
0x00A2	Meter2_ID	W	Meter2 ID 1~200	1	uint16	1	*
0x00A3	Reset Meter2 Energy	W	1effect	1	uint16	1	
0x00A4	DirectionMeterCT1	W	0:Positive 1:Negative	1	uint16	1	*
0x00A5	DirectionMeter2	W	0:Positive 1:Negative	1	uint16	1	*
0x00A6	DischCutOffPoint_DifferentEN	W	W Lead acide battery 0:disable 1:enable		uint16	1	*
0x00A7	Externallnv	W	W 0:Enable1:Disable		uint16	1	*
0x00A8	DischCutOffVoltage_GridMode	W	Lead acide battery DischargeCutVoltage~8000	0.1V	uint16	1	*
0x00A9	DRMFunctionEnable	R	0:disable 1:enable	1	uint16	1	*
0x00AA	Meter/CT_Select	W	0:Meter 1:CT	1	uint16	1	*
0x00AB	FVRT_Function	W	0:Disable 1:Enable	1	uint16	1	*
0x00AC	FVRT_VacUpper	W	230~288(X1) 230~276(X3)	1V	uint16	1	*
0x00AD	FVRT_VacLower	W	46~240(X1) 30~230(X3)	1V	uint16	1	*
0x00AE	PuFuncEnable	W	0:disable 1:enable	1	uint16	1	*
0x00AF	PuFunc_ResponseV1	W	(207.0~276.0)(X1) (250~2300)(X3)	0.1V	uint16	1	*
0x00B0	PuFunc_ResponseV2	W	(207.0~276.0)(X1) (250~2300)(X3)	0.1V	uint16	1	*
0x00B1	PuFunc_ResponseV3	W	(207.0~276.0)(X1) (1270~3000)(X3)	0.1V	uint16	1	*
0x00B2	PuFunc_ResponseV4	W	(207.0~276.0)(X1) (1270~3000)(X3)	0.1V	uint16	1	*
0x00B3	PuFunc_3Tau	W	6~180(X1) 3~180(X3)	1s	uint16	1	*
0x00B4	LeaseModeEnable	W	0:Disable 1:Enable	1	uint16	1	*
0x00B5	DeviceLockFlag	W	0:UnLock 1:Lock	1	uint16	1	*
0x00B6	ManualModeControl	W	0:OFF 1:ON	1	uint16	1	*
0x00B7	FeedinOnPower	W	0~8000	1W	uint16	1	*
0x00B8	SwitchOnSoc	W	0~100	1%	uint16	1	*
0x00B9	ConsumeOffPower	W	0~8000	1W	uint16	1	*
0x00BA	SwitchOffSoc	W	0~100	1%	uint16	1	*
0x00BB	MinimumPerOnSignal	W	5~100	1Min	uint16	1	*
0x00BC	MiaximumPerDayOn	W	5~1200	1Min	uint16	1	*
0x00BD	ScheduleEnable	W	0: disable 1:enable	1	uint16	1	*
0x00BE	WorkStartTime1	W	bP1_StartHour	0~23	uint8(Hi)	1	*
		W	bP1_StartMinute	0~59	uint8(Lo)		
0x00BF	WorkEndTime1	W	bP1_StopHour	0~23	uint8(Hi)	1	*



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		W	bP1_StopMinute	0~59	uint8(Lo)		
0x00C0	WorkStartTime2	W	bP2_StartHour	0~23	uint8(Hi)	1	*
0,0000	Workdarthing	W	bP2_StartMinute	0~59	uint8(Lo)		
0x00C1	WorkEndTime2	W	bP2_StopHour	0~23	uint8(Hi)	1	*
0,0001	Workerrarinioz	W	bP2_StopMinute	0~59	uint8(Lo)	_	,
0x00C2	LoadManagementWorkMode	W	W 0:Disable 1:manual 2:SmartSave		uint16	1	*
0x00C3	DryContactMode	W	0:Load Management 1:Generator Control	1	uint16	1	*
0x00C4	SelfuseModeBackupEn	W	0:disable 1:enable	1	uint16	1	*
0x00C5	SelfUse_BackupSoc	W	10~100	1%	uint16	1	*
0x00C6	Parallel Setting	W	0:Free 1: Master	1	uint16	1	*
0x00C7	ExternalGenEn	W	0:Disable 1:ATS Control 2:Dry Contact	1	uint16	1	*
0x00C8	ExternalGenMaxCharge	W	W ExternalGenMaxCharge 1		uint16	1	*
0x00C9	ModBusRTU_Address	W	ModBusRTU_Address	1	uint16	1	*
0x00CA	ModBusRTU_BraudRate	W	W 0:115200 1:57600 2:56000 3:38400 4:19200 5:14400 6:9600		uint16	1	*
0x00CB	SetPuPower1	W	0~20	1%	uint16	1	*
0x00CC	SetPuPower2	W	0~100	1%	uint16	1	*
0x00CD	SetPuPower3	W	W 0~100		uint16	1	*
0x00CE	SetPuPower4	W	0~20	1%	uint16	1	*
0x00CF	BatteryHeatingEn	W	BatteryHeatingEn	_	uint16	1	*
0x0D0	HeatingPeriod1_StartHour	W	HeatingPeriod1_StartHour	0~23	uint8(Hi)	1	*
OXODO	HeatingPeriod1_StartMinute	W	HeatingPeriod1_StartMinute	0~59	uint8(Lo)	1	^
0x00D1	HeatingPeriod1_EndHour	W	HeatingPeriod1_EndHour	0~23	uint8(Hi)	1	*
OXOODI	HeatingPeriod1_EndMinute	W	HeatingPeriod1_EndMinute	0~59	uint8(Lo)	1	Î Î
0x00D2	HeatingPeriod2_StartHour	W	HeatingPeriod2_StartHour	0~23	uint8(Hi)	1	*
OXOODZ	HeatingPeriod2_StartMinute	W	HeatingPeriod2_StartMinute	0~59	uint8(Lo)		Ŷ
0x00D3	HeatingPeriod2_EndHour	W	HeatingPeriod2_EndHour	0~23	uint8(Hi)	1	*
	HeatingPeriod2_EndMinute	W	HeatingPeriod2_EndMinute	0~59	uint8(Lo)		
0x00D4	ExportSoftLimitEn	W	0:Disable 1:Enable	-	uint16	1	*
0x00D5	ExportHardLimitEn	W	0:Disable 1:Enable	-	uint16	1	*
0x00D6	HardExportPower	W	0~15000	1W(X1) 10W(X3)	uint16	1	*
0x00D7	GeneralSoftLimitEn	W	0:Disable 1:Enable	-	uint16	1	*
0x00D8	GeneralHardLimitEn	W	0:Disable 1:Enable	-	uint16	1	*
0x00D9	SoftAcPowertLimit	W	0~15000	1VA(X1) 10VA(X3)	uint16	1	*
0x00DA	HardAcPowertLimit	W	0~15000	1VA(X1)	uint16	1	*



				10VA(X3)			
0x00DB	ResetErrorLog	W	Write 1 effcet	_	uint16	1	
0x00DB		W	Write 1 effcet	_	uint16	1	
UXUUDC	ResetINVEnergy	VV	white I elicer	-	umtto	1	
0x00DD	reserve	W		_	uint16	3	
0x00DE	0x00DE						
0x00DF	ResetINV	W	Write 1 effcet	-	uint16	1	
0x00E0	BatteryChargeMaxSoc	W	10~100	1%	uint16	1	*
0x00E1	mBatterToEVCharge	W	W 0:Disable 1:Enable		uint16	1	*
0x00E2	BMS_Restart	W	1:effect	1	uint16	1	
0x00E3	Start Gen Method	W	0:reference soc 1:immediately	1	uint16	1	*
0x00E4	Switch on SoC	W	Switch on SoC(reference soc)	1%	uint16	1	*
0x00E5	Switch off SoC	W	Switch off SoC(reference soc)	1%	uint16	1	*
0x00E6	MaxRunTime	W	MaxRunTime(1~60000)	1Min	uint16	1	*
0x00E7	MinRestTime	W	MinRestTime(1~60000)	1Min	uint16	1	*
0x00E8	Allow Work start time Hour	W	Allow Work start time Hour	0~23	uint8(Hi)	1	_
UXUUE8	Allow Work start time Minute	W	Allow Work start time Minute	0~59	uint8(Lo)	1	*
0x00E9	Allow Work stop time Hour	W	Allow Work start time Hour	0~23	uint8(Hi)	1	*
UXUUE9	Allow Work stop time Minute	W	Allow Work start time Minute	0~59	uint8(Lo)	1	*
	PeakShavingDischarPeriod.bP1_StartHour	W	0-23	1	uint8(Hi)	1	*
0x00EA	PeakShavingDischarPeriod.bP1_StartMinut e	W	0-59	1	uint8(Lo)	1	*
	PeakShaving Dischar Period. bP1_Stop Hour	W	0-23	1	uint8(Hi)	1	*
0x00EB	PeakShaving Dischar Period. bP1_Stop Minut e	W	0-59	1	uint8(Lo)	1	*
	PeakShaving Dischar Period. bP2_Start Hour	W	0-23	1	uint8(Hi)	1	*
0x00EC	PeakShaving Dischar Period. bP2_Start Minut e	W	0-59	1	uint8(Lo)	1	*
	PeakShaving Dischar Period. bP2_Stop Hour	W	0-23	1	uint8(Hi)	1	*
0x00ED	PeakShaving Dischar Period. bP2_Stop Minut e	W	0-59	1	uint8(Lo)	1	*
0x00EE	PeakShaving.PeriodBPeakLimits1	W	0~60000(X1) 0~3000(X3)	1W(X1) 10W(X3)	uint16	1	*
0x00EF	PeakShaving. PeriodDPeakLimits2	W	0~60000(X1) 0~3000(X3)	1W(X1) 10W(X3)	uint16	1	*
0x00F0	PeakShaving. PeriodAChargeFromGridEn	W	0:Disable 1:Enable	1	uint16	1	*
0x00F1	PeakShaving .PeriodAChargePowerLimits	W	0~7500(X1) 0~15000(X3)	1W	uint16	1	*
0x00F2	PeakShaving .PeriodAMax_SOC	W	10~100	1%	uint16	1	*
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0x00F3	PeakShaving.PeriodCReserved_SOC	W	10~100	1%	uint16	1	*
0x00F4	VPPExitIdleEn	W	0:Disable 1:Enable	1	uint16	1	*
0x00F5	FastCtCheckEn	W	0:disable 1:enable	1	uint16	1	*
0x00F6	Rev						
0x00F7	Rev						
0x00F8	Rev						
0x00F9	EVChargerAddr	W	0~255	1	uint16	1	*
0x00FA	Rev						
0x00FB	AdaptBoxG2Addr	W	0~255	1	uint16	1	*
0x00FC	Rev		0 1 1 2 2 2	5			
0x00FD	CTFalutEn	W	Cycle detection CT enable switch 0:Disable 1:Enable	1	uint16	1	*
0x0FE	SuperBuckUpEn	W	Enable switch for EPS mode without battery 0:Disable 1:Enable	1	uint16	1	*
0x0FF	SmartScheduleWorkMode	W	0:self use,1:Feedin Priority, 2:Bat not discharge	1	uint16	1	*
0x0100	GenCharge_StartHour	W	0-23	1	uint8(Hi)	1	*
00100	GenCharge_StartMinute	W	0-59	1	uint8(Lo)	1	*
	GenCharge_EndHour	W	0-23	1	uint8(Hi)	1	*
0x0101	GenCharge_EndMinute	W	0-59	1	uint8(Lo)	1	*
	GenDischarge_StartHour	W	0-23	1	uint8(Hi)	1	*
0x0102	GenDischarge_StartMinute	W	0-59	1	uint8(Lo)	1	*
	GenDischarge_EndHour	W	0-23	1	uint8(Hi)	1	*
0x0103	GenDischarge_EndMinute	W	0-59	1	uint8(Lo)	1	*
0x0104	GenP2_SetEnable	W	0:Disable 1:Enable	1	uint16	1	*
	GenP2Charge_StartHour	W	0-23	1	uint8(Hi)	1	*
0x0105	GenP2Charge_StartMinute	W	0-59	1	uint8(Lo)	1	*
	GenP2Charge_EndHour	W	0-23	1	uint8(Hi)	1	*
0x0106	GenP2Charge_EndMinute	W	0-59	1	uint8(Lo)	1	*
	GenP2Discharge_StartHour	W	0-23	1	uint8(Hi)	1	*
0x0107	GenP2Discharge_StartMinute	W	0-59	1	uint8(Lo)	1	*
	GenP2Discharge_EndHour	W	0-23	1	uint8(Hi)	1	*
0x0108	GenP2Discharge_EndMinute	W	0-59	1	uint8(Lo)	1	*
0x0109	ChargeFromGenEnable	W	0:Disable 1:Enable	1	uint16	1	*
0x010A	ChargeFromGen_ChargeSoC	W	10~100	1%	uint16	1	*
0x010B	GenMinPower	W	0~60000	1w	uint16	1	*

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0x010C	FastInEPS	W	0:Disable 1:Enable	1	uint16	1	
0x010D	CTCutDownINVEn	W	<mark>0:Disable 1:Enable</mark>	<mark>1</mark>	<mark>uint16</mark>	<mark>1</mark>	
0x010E							
~0x010F							
(REV)							
0x0113	bShotoffEn	W	0-1	1	uint16	1	
0x0114	PowerFactor_Qu_VoltRatio2	W	0~60	1%	uint16	1	
0x0115	PowerFactor_Qu_VoltRatio3	W	0~60	1%	uint16	1	

Table 3-1 Data format description

Master request format		
	Bytes number	Content format
Slave ID	1 byte	0x00~0xFF (Inverter default 0x01)
Function code	1 byte	0x06
Register address	2 byte Address MSB Address LSB	0x0000-0xFFFF
Value	2byte Data MSB Data LSB	0x0000-0xFFFF
CRC	2byte CRC MSB CRC MSB	
Slave normal response		
Slave ID	1 byte	0x00~0xFF (Inverter default 0x01)
Function code	1 byte	0x06
Register address	2 byte Address MSB Address LSB	0x0000-0xFFFF
Value	2byte Data MSB Data LSB	0x0000-0xFFFF
CRC	2byte CRC MSB CRC MSB	



Slave fault response		
Slave ID	1buto	0x00~0xFF
Slave ID	1byte	(Inverter default 0x01)
Fault code	1byte	0x86
Abnormal code	1by to	0x01 or 0x02 or 0x03 or
Abriormal code	1byte	0x04
	2byte	
CRC	CRC MSB	
	CRC MSB	

Example: Write CheckingTime 60s (Register:0x0002)

Master request: 01 06 00 02 00 3C 28 1B Slave response: 01 06 00 02 00 3C 28 1B



0x10:Write Multiple Register

Function	Write multiple register									
Code	Register	Variable	W/R	Decription	Unit	Data format	Length	EE Save		
		RTC-Seconds	W	RTC-Seconds 0~59	1s	uint16				
	0x0000	RTC-Minutes	W	RTC-Minutes 0~59	1min	uint16	6			
	-0x0005	RTC-Hours	W	RTC-Hours	0~23	uint16				
		RTC-Days	W	RTC-Days	1~31	uint16				
		RTC-Months	W	RTC-Months	1~12	uint16				
		RTC-Years	W	RTC-Years	0~99	uint16				
	0x0006 -0x001A	REV	W	REV	-	uint16	21			
	0x001B	NightChargo D1 StartTime	١٨/	StartHour	0~23	uint8(Hi)	1			
		NightCharge_P1_StartTime	W	StartMinute	0~24	uint8(Lo)	1			
		Ni alat Classes D1 Feed Time	١٨/	StartHour	0~23	uint8(Hi)	1			
		NightCharge_P1_EndTime	W	StartMinute	0~24	uint8(Lo)	1			
	~0x001E	Disclares D1 ChartTine	١٨/	StartHour	0~23	uint8(Hi)	1	*		
		DisCharge_P1_StartTime	W	StartMinute	0~24	uint8(Lo)	1			
		DisCharge_P1_EndTime	W	StartHour	0~23	uint8(Hi)	1			
0x10				StartMinute	0~24	uint8(Lo)				
	0x001F ~0x0026	REV	W	REV	-	uint16	8			
	0x0027 ~0x007B	REV	W	REV	-	uint16	85			
	0x007C	ModbusPowerControl	W	0:disable remote control 1:enable power control 2:enable electric quantity control 3:enable SOC target control 4: Push Power - Positive/Negative Mode 5: Push Power -Zero Mode	1	uint16	1			



			C: Calf C				
			6: Self Consume				
			Charge-Discharge Mode				
			7: Self Consume				
			Charge Only Mode				
0x007D	TargetSetType	W	1: set	1	uint16	1	
			2: update				
			0x007E(LSB)				
00075	David ata Caratura I		0x007F(MSB)				
0x007E	RemoteControl	W	(Postive mean	1W	int32	2	
~0x007F	ActivePower		charge;				
			Negative mean				
			discharge)				
			0x0080(LSB)				
			0x0081(MSB)				
0x0080	RemoteControl	١٨/	(Positive mean	1) /	:+00	0	
~0x0081	ReactivePower	W	Inductive reactive	1Var	int32	2	
			power;Negative mean				
		Capacitive reactive					
			power)				
0x0082	Time_of_Duration	W	power control mode	1s	Uint16	1	
0.0000	TargatCaa	W	Time of Duration	1 0/	Uint16	1	
0x0083 0x0084	TargetSoc	VV	Target soc	1%	OHILL	Т	
~0x0084 ~0x0085	TargetEnergy	W	0x0084(LSB)	1Wh	Uint32	2	
~0x0065			0x0085(MSB)				
			0x0086(LSB)				
			0x0087(MSB)				
			The power of				
0x0086	Charge_Discharg_Power	W	charging or discharging	1W	Int32	2	
~0x0087	Charge_Discharg_Fower	V V	(Postive mean	Τ // /	IIILOZ	۷	
			charge;				
			Charge, Negative mean				
			discharge)				
0x0088	 RemoteCtrlTimeOut	W	Timeout counter	1s	Uint16	1	
0,0000	Remotestiffifieout	v V	Timeout Counter	13	OHILLO	1	

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	POWER

	x0089 0x008A	PushModePower		0x0089(LSB) 0x008A(MSB) The power of charging or discharging (Postive mean discharge Negative mean charge)	1W	int32	2		
--	-----------------	---------------	--	--	----	-------	---	--	--

0x10:Write Multiple Register(Modbus PV Control)

Functio		register(Modbus PV Control)					
n code	Register	Variable	Variable W /R Decription		Unit	Data format	EE Save
0.40	0xA0	PowerControlMode	W	Select Power Control Mode	1	Uint16	*
0x10		The following reg	jister c	contents depend on the control mo	de		
		While PowerCo	ontroll	Mode == 8			
		(Electrical energy control	mode	, based on duration)			
	0xA1	TargetSetType	W	1: Set Target (Switch modes immediately) 2: Update Target (Switching to a new mode after execution of the current operating mode)	1	Uint16	*
	0xA2	PVPowerLimit(LSB)	W	LSB of PV Power Limit	1W	Uint16	*
	0xA3	PVPowerLimit(MSB)	W	MSB of PV Power Limit	1W	Uint16	*
	0xA4	PushModePower(LSB)	W	Battery power target (positive discharge, negative charge) LSB of PushModePower	1W	Uint16	*
	0xA5	PushModePower(MSB)	W	MSB of PushModePower	1W	Uint16	*
	0xA6	Time of Duration	W	Time of Duration	1s	Uint16	*
	0xA7	RemoteControlTimeOut	W	Remote Control Timeout	1s	Uint16	*
	(1	While PowerCo					
	0xA1	TargetSetType	W	1: Set Target 2: Update Target	1	Uint16	*
	0xA2 PVPowerLimit(LSB)		W	LSB of PV Power Limit	1W	Uint16	*
	0xA3	PVPowerLimit(MSB)	W	MSB of PV Power Limit	1W	Uint16	*
	0xA4	PushModePower(LSB)	W	Battery power target LSB of PushModePower	1W	Uint16	*



0xA5	PushModePower(MSB)	W	MSB of PushModePower	1W	Uint16	*
0xA6	Target SOC	W	Target SOC (Range 0~100%)	1%	Uint16	*
0xA7	RemoteControlTimeOut	W	Remote Control Timeout	1s	Uint16	*



0x10:Write Multiple Register(Data Hub)

	Function		Write multiple register(Data Hub)							
code		Register	Variable	W/R	Decription	Unit	Data format	EE Save		
	0x10	0xF000-0xF013	WriteSetValue	W	write the value of the setting item	1	Uint16	*		

Note:Only for internal device communication

0x10:Write Multiple Register(EvCharger)

32bit data use little endian format

Function		Read Holding Register(EvCharger)								
Code	Register	Variable	W/R	descripton	Unit	Data format	Length			
0x10		Please refer to the Document: 《(Solax)EVC ModbusRTU V3.3》								

Table 4-1 Data format description

Master request format							
	Bytes number	Content format					
Slave ID	1 by to	0x00~0xFF					
Slave ID	1 byte	(Inverter default 0x01)					
Function code	1 byte	0x10					
	2 byte						
Register address	Address MSB	0x0000-0xFFFF					
	Address LSB						
Register number	2byte	0x0001-0x007B					



Number NSB Number NSB Number LSB		N. J. MOD	
Byte number		Number MSB	
Value 2*N byte Data MSB Data LSB 0x0000-0xFFFF CRC 2byte CRC MSB CRC MSB 0x00-0xFF Slave normal response 0x00-0xFF (Inverter default 0x01) Function code 1 byte 0x10 Function code 1 byte 0x00-0xFFF (Inverter default 0x01) Register address Address MSB Address LSB 0x0000-0xFFFF Register number Number MSB Number LSB 0x0001-0x007B CRC CRC MSB CRC MSB 0x0001-0x007B Slave fault response Slave ID 1byte (Inverter default 0x01) Fault code 1byte 0x90 Abnormal code 1byte 0x01 or 0x02 or 0x03 or 0x04 CRC CRC MSB 0x00			
Value Data MSB Data LSB 0x0000-0xFFFF CRC 2byte CRC MSB CRC MSB 0x00~0xFF Slave normal response 0x00~0xFF ((Inverter default 0x01)) Function code 1 byte 0x10 Register address Address MSB Address LSB 0x0000-0xFFFF Register number Number MSB Number MSB Number LSB 0x0001-0x007B CRC CRC MSB CRC MSB 0x000-0xFF ((Inverter default 0x01)) Slave fault response 1 byte 0x00-0xFF ((Inverter default 0x01)) Fault code 1 byte 0x90 Abnormal code 1 byte 0x01 or 0x02 or 0x03 or 0x04 CRC CRC MSB 0x04	Byte number	1Byte	2*N
CRC		2*N byte	
CRC	Value	Data MSB	0x0000-0xFFFF
CRC CRC MSB CRC MSB Slave normal response Slave ID 1 byte 0x00~0xFF (Inverter default 0x01) Function code 1 byte 0x10 Register address Address MSB Address MSB Address LSB 0x0000~0xFFFF Register number Number MSB Number LSB 0x0001~0x007B CRC CRC MSB CRC MSB CRC MSB Slave fault response Slave ID 1byte 0x00~0xFF (Inverter default 0x01) Fault code 1byte 0x90 Abnormal code 1byte 0x01 or 0x02 or 0x03 or 0x04 CRC 2byte CRC MSB CRC MSB		Data LSB	
CRC MSB		2byte	
Slave normal response Slave ID 1 byte 0x00~0xFF (Inverter default 0x01) Function code 1 byte 2 byte Address MSB Address LSB 2byte Number MSB Number LSB CRC CRC CRC MSB Slave fault response Slave ID 1 byte 0x000~0xFFF 0x0000-0xFFFF 0x0001-0x007B 0x0001-0x007B 0x0001-0x007B 0x000~0xFF (Inverter default 0x01) Fault code 1 byte 0x00~0xFF (Inverter default 0x01) Fault code 1 byte 0x00 0x02 or 0x03 or 0x04	CRC	CRC MSB	
Slave ID 1 byte 0x00~0xFF (Inverter default 0x01) Function code 1 byte 0x10 Register address Address MSB Address LSB 2byte Number MSB Number LSB CRC CRC CRC MSB CRC MSB Slave fault response Slave ID 1 byte 0x0000-0xFFFF 0x0001-0x007B 0x0001-0x007B 0x0001-0x007B 0x00001-0x007B 0x00001-0x007B 0x00001-0x007B 0x00001-0x007B 0x00001-0x007B 0x00001-0x007B 0x0001-0x007B 0x00001-0x007B 0x000001-0x007B 0x0000001-0x007B 0x0000001-0x007B 0x0000001-0x007B 0x000000001-0x007B 0x000000000000000000000000000000		CRC MSB	
Slave ID	Slave normal respon	nse	
Function code 1 byte 2 byte Address MSB Address LSB Register number Number MSB Number LSB 2byte CRC CRC MSB Slave fault response Slave ID 1 byte 1 byte 0x000-0xFF (Inverter default 0x01) 0x0000-0xFFF 0x0001-0x007B 0x0001-0x007B 0x0001-0x007B 0x000-0xFF (Inverter default 0x01) Fault code 1 byte 0x00-0xFF (Inverter default 0x01) Fault code 1 byte 0x90 0x01 or 0x02 or 0x03 or 0x04 2byte CRC CRC MSB	CI ID	4.1	0x00~0xFF
Function code 1 byte 2 byte Address MSB Address LSB Register number Number MSB Number LSB 2byte CRC CRC MSB CRC MSB Slave fault response Slave ID 1 byte 1 byte 0x000-0xFFF 0x0001-0x007B 0x0001-0x007B 0x0001-0x007B 0x000-0xFF (Inverter default 0x01) Fault code 1 byte 0x90 0x01 or 0x02 or 0x03 or 0x04 2byte CRC MSB	Slave ID	1 byte	(Inverter default 0x01)
Register address Address MSB Address LSB 2byte Number MSB Number LSB CRC CRC MSB CRC MSB Slave fault response Slave ID 1byte 0x90 Abnormal code 1byte 0x00 CRC MSB CRC MSB CRC MSB CRC MSB CRC MSB Ox000-0xFFF (Inverter default 0x01) Ox00~0xFF (Inverter default 0x01) Ox01 or 0x02 or 0x03 or 0x04 CRC CRC MSB	Function code	1 byte	0x10
Address LSB 2byte Number MSB Number LSB CRC CRC MSB CRC MSB Slave fault response Slave ID 1byte 1byte 0x00~0xFF (Inverter default 0x01) Fault code 1byte 0x00 ox02 or 0x03 or 0x04 2byte CRC CRC MSB		2 byte	
Register number Number MSB Number LSB 2byte CRC CRC MSB CRC MSB Slave fault response Slave ID 1byte 0x00~0xFF (Inverter default 0x01) Fault code 1byte 0x90 0x01 or 0x02 or 0x03 or 0x04 2byte CRC CRC MSB	Register address	Address MSB	0x0000-0xFFFF
Register number Number MSB Number LSB 2byte CRC CRC MSB CRC MSB Slave fault response Slave ID 1byte 1byte 0x00~0xFF (Inverter default 0x01) Fault code 1byte 0x90 Ox01 or 0x02 or 0x03 or 0x04 2byte CRC CRC MSB		Address LSB	
Number LSB 2byte CRC MSB CRC MSB Slave fault response Slave ID 1byte 0x00~0xFF (Inverter default 0x01) Fault code 1byte 0x90 Ox01 or 0x02 or 0x03 or 0x04 2byte CRC MSB		2byte	
CRC CRC MSB CRC MSB CRC MSB Slave fault response Slave ID 1byte 0x00~0xFF (Inverter default 0x01) Fault code 1byte 0x90 Abnormal code 1byte 0x01 or 0x02 or 0x03 or 0x04 CRC CRC MSB	Register number	Number MSB	0x0001-0x007B
CRC MSB CRC MSB Slave fault response Slave ID 1byte 0x00~0xFF (Inverter default 0x01) Fault code 1byte 0x90 Abnormal code 1byte 0x01 or 0x02 or 0x03 or 0x04 CRC CRC MSB		Number LSB	
Slave fault response Slave ID 1byte 0x00~0xFF (Inverter default 0x01) Fault code 1byte 0x90 Abnormal code 1byte 0x01 or 0x02 or 0x03 or 0x04 CRC CRC MSB		2byte	
Slave fault response Slave ID 1byte 0x00~0xFF (Inverter default 0x01) Fault code 1byte 0x90 Abnormal code 1byte 0x01 or 0x02 or 0x03 or 0x04 2byte CRC CRC MSB	CRC	CRC MSB	
Slave ID 1byte 0x00~0xFF (Inverter default 0x01) Fault code 1byte 0x90 Abnormal code 1byte 0x01 or 0x02 or 0x03 or 0x04 CRC 2byte CRC MSB 0x04		CRC MSB	
Slave ID 1byte (Inverter default 0x01)	Slave fault response		
Tault code	Cl ID	11 +-	0x00~0xFF
Abnormal code 1byte 0x01 or 0x02 or 0x03 or 0x04 2byte CRC CRC MSB	Slave ID	Ibyte	(Inverter default 0x01)
Abnormal code 1byte 0x04 2byte CRC CRC MSB	Fault code	1byte	0x90
CRC CRC MSB	Abnormal codo	1hyto	0x01 or 0x02 or 0x03 or
CRC MSB	Abhormar code	Toyle	0x04
		2byte	
CRC MSB	CRC	CRC MSB	
		CRC MSB	

Example: Write RTCTime (Register: 0x0000~0x0005).

Master request: 01 10 00 00 00 06 0C 00 38 00 15 00 0E 00 0C 00 01 00 15 42 E9

Slave response: 01 10 00 00 00 06 40 0B



Upgrade W/R Register and Example

Function			Jpdate	e W/R register			
Code	Register	Variable	W/R	Decription	Unit	Data	Lent h
0x03	0x3000 ~0x300 1	BootloaderVersion	R	BootloaderVersion	-	uint16	2
	0x3002	IAP_Protocol	WR	bit0:data transfer protocol bit1:high power upgrade protocol	-	uint16	1
0x03/0x10	0x3003	UpgradeModule	WR	0: Rev 1: ARM 2: MDSP 3: SDSP 4: ARC 5: ARM+DSP 6: BMS_M 7: BMS_S 10:EVCharge	-	uint16	1
	0x3004	UpgradeTimeOut	WR	UpgradeTimeOut	1S	uint16	1
	0x3005 ~0x300 6	UpgradeKey	WR	UpgradeKey	-	uint16	2
0x03	0x3007 ~0x300 8	UpgradeSeed	R	UpgradeSeed	-	uint16	2
0x03	0x3009 ~0x300 F	Rev	R	Rev		uint16	7
	0x3010	UpgradeMachineType	WR	UpgradeMachineType	-	uint16	1
	0x3011 ~0x301 2	FileCheckSum	WR	FileCheckSum	-	uint16	2
0x03/0x10	0x3013	DownLoadBlockNum	WR	data transfer mode:1 high power transfer mdoe:DownLoadBlockNum	-	uint16	1
	0x3014 ~0x301 5	EraseStartAddr	WR	EraseStartAddr	-	uint16	2
	0x3016 ~0x301 7	EraseLength	WR	EraseLength	-	uint16	2



	0x3018 ~ 0x3019	BlockStartAddr	WR	BlockStartAddr	-	uint16	2
	0x301A ~0x301 B	BlockLength	WR	BlockLength	1	uint16	2
	0x301C	CurrentBlockNum	WR	data transfer mode:1 high power transfer mdoe:CurrentBlockNum	-	uint16	1
	0x301D ~0x301 E	BlockCheckSum	WR	BlockCheckSum	-	uint16	2
	0x301F	UpgradeDataPackageNum	WR	UpgradeDataPackageNum	-	uint16	1
	0x3020 ~0x309 7	UpgradeData	WR	UpgradeData	-	uint16	120
0x03	0x3098	BlockCheckResult	R	BlockCheckResult	-	uint16	1
	0x3099	McuDownLoadCheckResult	R	McuDownLoadCheckResult	-	uint16	1
	0x309A ~0x30A 3	Rev	R	Rev	-	uint16	10
	0x30A4	ToBeDownloadMcuInfor	R	ToBeDownloadMcuInfor	-	uint16	1
	0x30A5	DownloadedMcuInfor	R	DownloadedMcuInfor	ı	uint16	1
	0x30A6	UpgradeMcuInfor	R	UpdateMcuInfor	ı	uint16	1
	0x30A7	lapState	R	0x0000:AppCommonRunStatus 0x0001:AppResumeWaitStatus 0x0002:EraseProgramStatus 0x0003:ProgramDownloadStatus 0x0004:UpgradeSuccessStatus 0x0005:UpgradeFailStatus 0x8000:bootloaderCommonRun Status 0x8001:BootloaderResumeWaitSt atus	-	uint16	1
	0x30A8	DownloadedBlockNum	R	DownloadedBlockNum	-	uint16	1
	0x30A9	DownloadedPackageNum	R	DownloadedPackageNum	ı	uint16	1
0x03/0x10	0x30AA ~0x30C 2	File_Name	WR	File_Name	-	uint16	25





Example DSP(X1G4) file: 1P TXP VI. 22 2021

Example Upgrade Process Message:

Process Explain(X1G4UpgradeProcessData.TXT):

First step: Send the upgrade object and set the timeout period.

User \rightarrow Inverter: 01 10 30 02 00 05 0A 00 00 00 00 1E 00 00 00 01 78 2C

Inverter → User: 01 10 30 02 00 05 AE CA

Second step: Send the upgrade machine type, the overall checksum of the upgrade file and file size of the upgrade file. The inverter will erase the flash and wait to receive the upgrade package.

User → Inverter: 01 10 30 10 00 0F 1E 00 0F 14 3C 00 00 00 01 00 00 00 00 00 00 00 00 00

00 00 B2 68 00 08 00 01 00 00 00 00 EAA5 Inverter → User: 01 10 30 10 00 0F 8E C8

Third step: Send the name of the upgrade file, the following message file name is "618.00360.00 HYB 1P DSP V1.22 20211216.usb", default information zero padding.

User → Inverter:01 10 30 AA 00 19 32 36 31 38 2E 30 30 33 36 30 2E 30 30 5F 48 59 42 5F 31 50 5F 44 53 50 5F 56 31 2E 32 32 5F 32 30 32 31 31 32 31 36 2E 75 73 62 00 00 00 00 00 00 00 E9 D1

Inverter → User: 01 10 30 AA 00 19 2E E3

Fourth step: Send the packtage number and the datas of the upgrade file to inverter, send 240 bytes at a time. The last packet is less than 240 bytes to fill with 0.

Inverter → User: 01 10 30 1F 00 79 3F 2D

•••

Subsequent data interaction processing is similar to the fourth step, Relevant information can be obtained through the document (X1G4UpgradeProcessData.TXT)





Example DSP(X3G4) file: YB_3P_DSP_V1.10

UpgradeProces sData.TXT

Example Upgrade Process Message:

Process Explain(UpgradeProcessData.TXT):

First step: Send the upgrade object and set the timeout period.

User → Inverter: 01 10 30 02 00 05 0A 00 00 00 00 01 1E 00 00 00 01 78 2C

Inverter → User: 01 10 30 02 00 05 AE CA

Second step: Send the upgrade machine type, the overall checksum of the upgrade file and file size of the upgrade file. The inverter will erase the flash and wait to receive the upgrade package.

User → Inverter: 01 10 30 10 00 0F 1E 00 00 8D 6B 00 00 00 01 00 00 00 00 00 00 00 00 00

00 00 <mark>60 96 00 09</mark> 00 01 00 00 00 00 ED B4 Inverter → User: 01 10 30 10 00 0F 8E C8

Third step: Send the name of the upgrade file, the following message file name is "618.00405.00_HYB_3P_DSP_V1.10_1009.usb", default information zero padding.

Inverter → User: 01 10 30 AA 00 19 2E E3

Fourth step: Send the packtage number and the datas of the upgrade file to inverter, send 240 bytes at a time. The last packet is less than 240 bytes to fill with 0.

Inverter \rightarrow User: 01 10 30 1F 00 79 3F 2D

...

Subsequent data interaction processing is similar to the fourth step, Relevant information can be



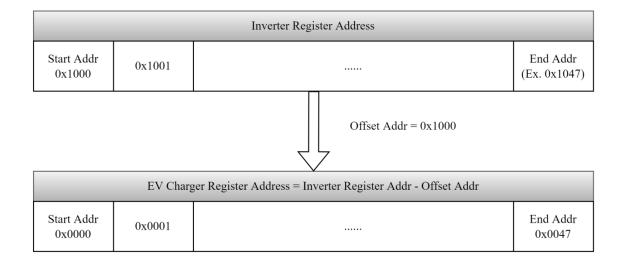
obtained through the document 《UpgradeProcessData.TXT》

Supplement:

- 1. The part marked in yellow is the register of the main function currently used. Other parameters are not currently used, and are prepared for the future upgrade of the function expansion. You do not need to pay attention to it at present.
- 2. In order to facilitate the capture of data packets, the response delay on the inverter side has been adjusted, and the response delay in the actual upgrade process will be lower.
- 3. The baud rate has a direct impact on the overall time of the upgrade, it is recommended to use 19200 or 38400.
- 4. After the file download is complete, the inverter will initiate the subsequent upgrade process, and it will take a certain time to complete the upgrade operation of the corresponding object.
- 5. In the second step, the erasing process is initiated. Since the inverter takes a certain time to erase the Flash, it is recommended to wait for a 10-second timeout for this response.
- 6. The UpgradeMachineType(0x3010) in the second step is currently not used, default fill 0.
- 7. In the second step, the file verification also uses the modbus CRC16 calculation method.
- 8. Complete the write operation by 0x10 function code, and 0x03 function code for query response processing
- 9. For the upgrade objects supported by X1G4 and X3G4 models (UpgradeModule 0x3003): 1:ARM 2:MDSP 5:ARM+DSP 6:BMS M 7:BMS S
- 10. The function upgraded through modbus is in the development stage, and the incomplete part can be adjusted and improved in the future.
- 11. Follow-up supplements for the failure of the upgrade, such as illegal file name, mismatch between the upgrade object and the file, file verification mismatch, etc.



Read or Set the EVC register via Inverter



Example: Read or Set the EV Charger Work Mode

Use 0x10 as the Function Code, According to the Charter(0x10:Write Multiple Register(EvCharger)), Set 0x100D as the Start Addr, if we wish the EV Charger work at ECO Mode and the Gear is 10A, we can send the Command to Inverter as follow:



If we want to know whether the EV Charger actually work at ECO Mode as 10A gear, we could read the Register 0x100D&0x100E by the Function Code 0x03:



For more Inverter&EV Charger Communication Details Please refer to the Document: 《(Solax)EVC ModbusRTU V3.3》