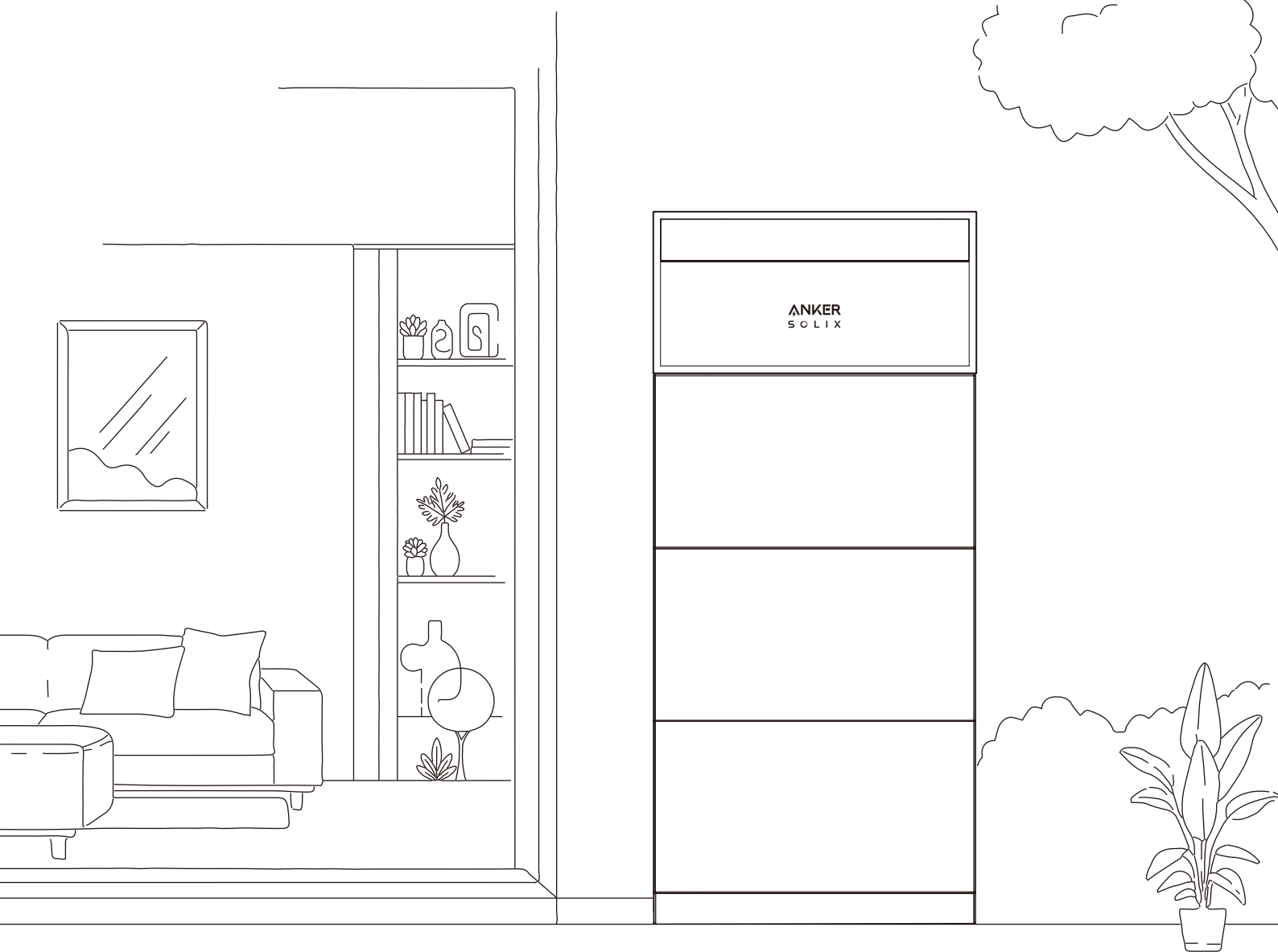


Anker SOLIX X1 Series Modbus Protocol

Version: **V 1.0.0**

Date: **2025-08-07**



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REVISION HISTORY

Version	Updated Date	Updated Page	Revisions
V1.0.0	2025/8/7	All	Initial release

Introduction

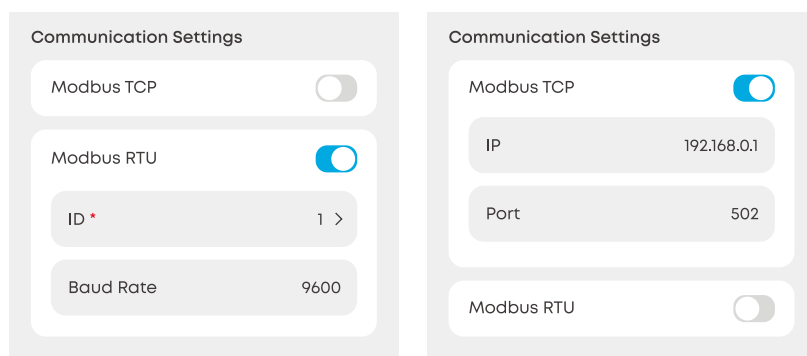
Support Devices:

X1-H3.68K-S, X1-H4.6K-S, X1-H5K-S, X1-H6K-S, X1-H5K-S BE
X1-H5K-T, X1-H8K-T, X1-H10K-T, X1-H12K-T, X1-H10K-T BE

Support Method:

1. Modbus RTU: RS485 Connection
2. Modbus TCP: Local network Connection.
X1 device is the server, and the 3rd party device is the client.
Default port: **502**

Please use Anker Solix Professional App to the communication method.



For Modbus RTU, the 'ID' is the address of RS485, can be set.

For Modbus TCP, the 'IP' is the IP address of current device, the 3rd party device can use this IP address to connect with X1 device

*The current version does not support parallel systems

DESCRIPTION

Modbus RTU

Protocol Format			
Address (1 byte)	Function code (1 byte)	Data (0-252 byte)	CRC16 (2 byte)

Fuciton Code

Function Code	Description	Remarks
0x03	Read Holding Registers, supporting both single and sequential read operations of multiple register addresses.	Read 'RW' register
0x04	Read Input Registers, supporting both single and sequential read operations of multiple register addresses.	Read 'RO' register
0x06	Write signla register.	
0x10	Write Multiple Registers, with support for sequential write operations.	

0x03/0x04 Read Register Format

Send (3rd party device)		
Data Field	Length	Description
Address	1 byte	Client Address
Function Code	1 byte	0x03/0x04
Register Address	2 byte	Register Start Address
Number of Register	2 byte	
CRC16	2 byte	
Return (X1 Device)		
Data Field	Length	Description
Address	1 byte	Client Address
Function Code	1 byte	0x03/0x04
Byte Count	1 byte	2*N(Quantity of Registers to Read)
Register Vaule	2*N bytes	Values
CRC16	2 byte	
Error Code		
Data Field	Length	Description
Address	1 byte	Client Address
Function Code	1 byte	0x83/0x84
Error Code	1 byte	0x01: Illegal Function 0x02: Illegal Data Value 0x03: Illegal Register Address 0x04: CRC Error
CRC16	2 byte	

0x06 Write Signal Register Format

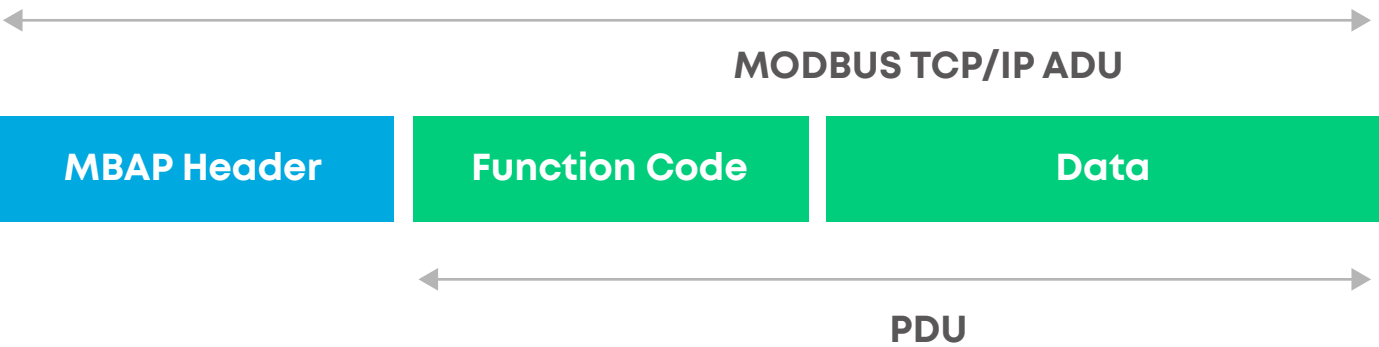
Send (3rd party device)		
Data Field	Length	Description
Address	1 byte	Client Address
Function Code	1 byte	0x03/0x04
Register Address	2 byte	Register Address
Register Value	2 byte	
CRC16	2 byte	
Return (X1 Device)		
Data Field	Length	Description
Address	1 byte	Client Address
Function Code	1 byte	0x06
Byte Count	1 byte	Register Address
Register Vaule	2*N bytes	Values
CRC16	2 byte	
Error Code		
Data Field	Length	Description
Address	1 byte	Client Address
Function Code	1 byte	0x83/0x84
Error Code	1 byte	0x01: Illegal Function 0x02: Illegal Data Value 0x03: Illegal Register Address 0x04: CRC Error
CRC16	2 byte	

0x10 Write Multiple Register Format

Send (3rd party device)		
Data Field	Length	Description
Address	1 byte	Client Address
Function Code	1 byte	0x10
Register Address	2 byte	Register Start Address
Number of Register	1 byte	
Value	2 byte	value
CRC16	2 byte	
Return (X1 Device)		
Data Field	Length	Description
Address	1 byte	Client Address
Function Code	1 byte	0x10
Byte Count	2 byte	Register Start Address
Register Vaule	2 byte	N
CRC16	2 byte	
Error Code		
Data Field	Length	Description
Address	1 byte	Client Address
Function Code	1 byte	0x83/0x84
Error Code	1 byte	0x01: Illegal Function 0x02: Illegal Data Value 0x03: Illegal Register Address 0x04: CRC Error
CRC16	2 byte	

MODBUS RTU

Protocol Format



MBAP Format

Data Field	Length (bytes)	Description	Client	Server
Transaction Identifier	2	Unique ID generated by the client to match requests/responses.	The client should assign a unique Transaction Identifier (TransID) to each request frame.	The same as request
Protocol Identifier	2	Always 0x0000 for standard Modbus TCP.	The client assign, default is '0'	The same as request
Length	2	Number of remaining bytes (Unit ID + PDU). Max: 254 (0x00FE).		
Unit Identifier	1	Device address, default is (0x0001)		
* Fuciton Code is the same as Modbus RTU				

REGISTER DEFINITION

Classification - Summary - Information							
End Point	R/W	Type	Unit	Gain	Number	Address	Comment
Plant Status	RO	UINT16	/	/	1	10000	1: On-grid; 2: Off-grid; 3: Standby; 4: Fault;
Battery Status	RO	UINT16	/	/	1	10001	0: Standby; 1: Charging; 2: Discharging; 3: Sleep;
PV Power	RO	INT32	W	1	2	10002	
3rd Party PV Power	RO	INT32	W	1	2	10004	
Active Power(PCS AC Side)	RO	INT32	W	1	2	10006	Positive: represents output power. Negative: indicates absorption power.
Battery Power	RO	INT32	W	1	2	10008	The sum of the charging and discharging power of all batteries in the plant Positive: Discharging. Negative: Charging.
Load Power	RO	INT32	W	1	2	10010	
Grid Power	RO	INT32	W	1	2	10012	Positive: From grid Negative: Feed to grid
SOC	RO	UINT16	%	1	1	10014	Integrated SOC for all batteries in the plant
SOH	RO	UINT16	%	1	1	10015	Integrated SOH for all batteries in the plant
Daily PV Generation	RO	UINT32	kWh	10	2	10016	
Total PV Generation	RO	UINT32	kWh	10	2	10018	
Daily Battery Charge Energy	RO	UINT32	kWh	10	2	10020	
Total Battery Charge Energy	RO	UINT32	kWh	10	2	10022	
Daily Load Consumption Energy	RO	UINT32	kWh	10	2	10024	
Total Load Consumption Energy	RO	UINT32	kWh	10	2	10026	
Daily Purchased Energy	RO	UINT32	kWh	10	2	10028	
Total Purchased Energy	RO	UINT32	kWh	10	2	10030	
Daily Feed-in Energy	RO	UINT32	kWh	10	2	10032	
Total Feed-in Energy	RO	UINT32	kWh	10	2	10034	
Rechargeable Power	RO	INT32	W	1	2	10036	
Dischargeable Power	RO	INT32	W	1	2	10038	
Number of PCS	RO	UINT16	/	/	1	10040	
Number of Available PCS	RO	UINT16	/	/	1	10041	
System Alarm 1	RO	UINT16	/	/	1	10042	Each BIT represents an alarm, refer to the alarm info.
System Alarm 2	RO	UINT16	/	/	1	10043	
System Alarm 3	RO	UINT16	/	/	1	10044	
System Alarm 4	RO	UINT16	/	/	1	10045	
System Alarm 5	RO	UINT16	/	/	1	10046	
System Alarm 6	RO	UINT16	/	/	1	10047	
System Alarm 7	RO	UINT16	/	/	1	10048	
System Alarm 8	RO	UINT16	/	/	1	10049	
Reserved					10	10050	

Classification - Summary - Control							
End Point	R/W	Type	Unit	Gain	Number	Address	Comment
System Time	RW	UINT32	/	/	2	10060	Timestamp
Time Zone	RW	UINT16	/	/	1	10062	
DST	RW	UINT16	/	/	1	10063	1: Enable; 2: Disable;
Work Mode	RW	UINT16	/	/	1	10064	0: Self-consumption; 1: TOU; 2: Backup only 3: 3rd party control (VPP, etc) 4: User-Defined 5: Socket Aggregation
Reserved	RW	INT32	W	1	2	10065	
Reserved	RW	INT32	W	1	2	10067	
Active Power Control - Percentage	RW	INT16	%	1	1	10069	
Reactive Power Control - Percentage	RW	INT16	%	1	1	10070	
Battery Charge/Discharge Control	RW	INT32	W	1	2	10071	Positive: Discharging. Negative: Charging. Only valid when the work mode is 3rd party control
Switch On/Off Control	WO	UINT16	/	1	1	10073	1: Switch On 2: Switch Off
Export Power Limit Control Mode	RW	UINT16	/	1	1	10074	0: Disable; 1: Percentage of rated power; 2: Fixed power;
Export Power Limit Control Value	RW	UINT32	W or %	1 or /	2	10075	
Import Power Limit Control Mode	RW	UINT16	/	1	1	10077	0: Disable; 1: Percentage of rated power; 2: Fixed power;
Import Power Limit Control Value	RW	UINT32	W or %	1 or /	2	10078	
Com disconnect Time with VPP	RW	UINT16	s	1	1	10080	0-65535, Default:1800s (30min) After disconnecting from VPP, the device will work in self-consumption and return to the previous working mode
					9	10081	

Classification - PCS - Basic Information							
End Point	R/W	Type	Unit	Gain	Number	Address	Comment
Model Name	RO	STRING	/	/	10	10090	Example: "X1-H5K-S"
SN	RO	STRING	/	/	12	10100	Example: "APCxxxxxxxxxxx"
Software Version	RO	STRING	/	/	6	10112	
Hardware Version	RO	STRING	/	/	6	10118	
Rated Power (Pn)	RO	INT32	W	1	2	10124	
Maximum Active Power	RO	INT32	W	1	2	10126	
Maximum Apparent Power	RO	INT32	KVA	1	2	10128	
Numbers of MPPT	RO	UINT16	/	1	1	10130	
Strings per MPPT	RO	UINT16	/	1	1	10131	
Output Mode	RO	UINT16	/	/	1	10132	1: L/N; 2: L1/L2/N; 3: 3P3W; 4: 3P4W;
Reserved					10	10133	
Classification - PCS - Status & Alarm							
End Point	R/W	Type	Unit	Gain	Number	Address	Comment
Work Status	RO	UINT16	/	1	1	10143	0: Shutdown; 1: On-grid; 2: Off-grid; 3: Standby; 4: Self-check; 5: Fault;
Alarm 1	RO	UINT16	/	1	1	10144	Reserved
Alarm 2	RO	UINT16	/	1	1	10145	
Alarm 3	RO	UINT16	/	1	1	10146	
Alarm 4	RO	UINT16	/	1	1	10147	
Alarm 5	RO	UINT16	/	1	1	10148	
Alarm 6	RO	UINT16	/	1	1	10149	
Alarm 7	RO	UINT16	/	1	1	10150	
Alarm 8	RO	UINT16	/	1	1	10151	
Alarm 9	RO	UINT16	/	1	1	10152	
Alarm 10	RO	UINT16	/	1	1	10153	
Alarm 11	RO	UINT16	/	1	1	10154	
Alarm 12	RO	UINT16	/	1	1	10155	
Internal Temperature	RO	INT16	°C	10	1	10156	
Reserved					10	10157	

Classification - PCS - PV Information							
End Point	R/W	Type	Unit	Gain	Number	Address	Comment
PV1 Voltage	RO	UINT16	V	10	1	10167	
PV1 Current	RO	UINT16	A	100	1	10168	
PV2 Voltage	RO	UINT16	V	10	1	10169	
PV2 Current	RO	UINT16	A	100	1	10170	
PV3 Voltage	RO	UINT16	V	10	1	10171	
PV3 Current	RO	UINT16	A	100	1	10172	
PV4 Voltage	RO	UINT16	V	10	1	10173	
PV4 Current	RO	UINT16	A	100	1	10174	
PV5 Voltage	RO	UINT16	V	10	1	10175	
PV5 Current	RO	UINT16	A	100	1	10176	
PV6 Voltage	RO	UINT16	V	10	1	10177	
PV6 Current	RO	UINT16	A	100	1	10178	
PV7 Voltage	RO	UINT16	V	10	1	10179	
PV7 Current	RO	UINT16	A	100	1	10180	
PV8 Voltage	RO	UINT16	V	10	1	10181	
PV8 Current	RO	UINT16	A	100	1	10182	
Total PV Power	RO	INT32	W	1	2	10183	
Daily PV Generation	RO	UINT32	kWh	10	2	10185	
Total PV Generation	RO	UINT32	kWh	10	2	10187	
Reserved					10	10189	

Battery - PCS - Grid Information

End Point	R/W	Type	Unit	Gain	Number	Address	Comment
Grid Voltage / Uab Voltage	RO	UINT16	V	10	1	10199	When the output mode is L/N, L1/L2/N or L1/L2, use 'Grid Voltage' When the output mode is 3P3W or 3P4W use 'Uab Voltage'
Ubc Voltage	RO	UINT16	V	10	1	10200	Only valid when the output mode is 3P3W or 3P4W.
Uca Voltage	RO	UINT16	V	10	1	10201	
Phase A Voltage	RO	UINT16	V	10	1	10202	
Phase B Voltage	RO	UINT16	V	10	1	10203	
Phase C Voltage	RO	UINT16	V	10	1	10204	
Grid Current / Phase A Current	RO	UINT16	V	100	1	10205	When the output mode is L/N, L1/L2/N or L1/L2, use 'Grid Current' When the output mode is 3P3W or 3P4W use 'Phase A Current'
Phase B Current	RO	INT16	A	100	1	10206	Only valid when the output mode is 3P3W or 3P4W.
Phase C Current	RO	INT16	A	100	1	10207	
Gird Active Power	RO	INT32	W	1	2	10208	
Gird Reactive Power	RO	INT32	KVA	1	2	10210	
Gird Power Factor	RO	INT16	/	1000	1	10212	
Gird Frequency	RO	UINT16	HZ	100	1	10213	
Reserved					10	10214	

Classification - PCS - Backup Information

End Point	R/W	Type	Unit	Gain	Number	Address	Comment
Backup Voltage / Uab Voltage	RO	UINT16	V	10	1	10224	When the output mode is L/N, L1/L2/N or L1/L2, use 'Backup Voltage' When the output mode is 3P3W or 3P4W use 'Uab Voltage'
Ubc Voltage	RO	UINT16	V	10	1	10225	Only valid when the output mode is 3P3W or 3P4W.
Uca Voltage	RO	UINT16	V	10	1	10226	
Phase A Voltage	RO	UINT16	V	10	1	10227	
Phase B Voltage	RO	UINT16	V	10	1	10228	
Phase C Voltage	RO	UINT16	V	10	1	10229	
Backup Current / Phase A Current	RO	UINT16	A	100	1	10230	When the output mode is L/N, L1/L2/N or L1/L2, use 'Backup Current' When the output mode is 3P3W or 3P4W use 'Phase A Current'
Phase B Current	RO	INT16	A	100	1	10231	Only valid when the output mode is 3P3W or 3P4W.
Phase C Current	RO	INT16	A	100	1	10232	
Backup Active Power	RO	INT32	W	1	2	10233	
Backup Reactive Power	RO	INT32	KVA	1	2	10235	
Backup Power Factor	RO	INT16	/	1000	1	10237	
Backup Frequency	RO	UINT16	HZ	100	1	10238	
Reserved					10	10239	

Classification - Battery - Battery Information							
End Point	R/W	Type	Unit	Gain	Number	Address	Comment
Number of Packs	RO	UINT16	/	1	1	10249	
Rated Capacity	RO	UINT32	kWh	10	2	10250	
Battery Status	RO	UINT16	/	/	1	10252	1: Charging; 2: Discharging; 3: Standby; 4: Sleep; 5: SOC/SOH Correction
Battery Voltage	RO	UINT16	V	10	1	10253	
Battery Power	RO	INT32	W	1	2	10254	Positive: Discharging; Negative: Charging;
SOC	RO	UINT16	%	1	1	10256	
SOH	RO	UINT16	%	1	1	10257	
Daily Charge Energy	RO	UINT32	kWh	10	2	10258	
Daily Discharge Energy	RO	UINT32	kWh	10	2	10260	
Total Charge Energy	RO	UINT32	kWh	10	2	10262	
Total Discharge Energy	RO	UINT32	kWh	10	2	10264	
Alarm 1	RO	UINT16	/	1	1	10266	Reserved
Alarm 2	RO	UINT16	/	1	1	10267	
Alarm 3	RO	UINT16	/	1	1	10268	
Alarm 4	RO	UINT16	/	1	1	10269	
Alarm 5	RO	UINT16	/	1	1	10270	
Alarm 6	RO	UINT16	/	1	1	10271	
Alarm 7	RO	UINT16	/	1	1	10272	
Alarm 8	RO	UINT16	/	1	1	10273	
Reserved					10	10274	

Classification - Battery - Pack 1 Information

End Point	R/W	Type	Unit	Gain	Number	Address	Comment
Model Name	RO	STRING	/	/	10	10284	
SN	RO	STRING	/	/	12	10294	
Software Version	RO	STRING	/	/	6	10306	
Hardware Version	RO	STRING	/	/	6	10312	
Rate Capacity	RO	UINT32	kWh	10	2	10318	
Staats	RO	UINT16	/	/	1	10320	1: Charging; 2: Discharging; 3: Standby; 4: Sleep; 5: SOC/SOH Correction; 6: Heating;
Volatge	RO	UINT16	V	10	1	10321	
Power	RO	INT32	W	1	2	10322	
SOC	RO	UINT16	%	1	1	10324	
SOH	RO	UINT16	%	1	1	10325	
Total Discharge Energy	RO	UINT32	kWh	10	2	10326	
Maximum Temperature	RO	UINT16	°C	1	1	10328	
Minimum Temperature	RO	UINT16	°C	1	1	10329	
Reserved					10	10330	

Classification - Battery - Pack 2 Information

End Point	R/W	Type	Unit	Gain	Number	Address	Comment
Model Name	RO	STRING	/	/	10	10340	
SN	RO	STRING	/	/	12	10350	
Software Version	RO	STRING	/	/	6	10362	
Hardware Version	RO	STRING	/	/	6	10368	
Rate Capacity	RO	UINT32	kWh	10	2	10374	
Staats	RO	UINT16	/	/	1	10376	1: Charging; 2: Discharging; 3: Standby; 4: Sleep; 5: SOC/SOH Correction; 6: Heating;
Volatge	RO	UINT16	V	10	1	10377	
Power	RO	INT32	W	1	2	10378	
SOC	RO	UINT16	%	1	1	10380	
SOH	RO	UINT16	%	1	1	10381	
Total Discharge Energy	RO	UINT32	kWh	10	2	10382	
Maximum Temperature	RO	UINT16	°C	1	1	10384	
Minimum Temperature	RO	UINT16	°C	1	1	10385	
Reserved					10	10386	

Classification - Battery - Pack 3 Information

End Point	R/W	Type	Unit	Gain	Number	Address	Comment
Model Name	RO	STRING	/	/	10	10396	
SN	RO	STRING	/	/	12	10406	
Software Version	RO	STRING	/	/	6	10418	
Hardware Version	RO	STRING	/	/	6	10424	
Rate Capacity	RO	UINT32	kWh	10	2	10430	
Staats	RO	UINT16	/	/	1	10432	1: Charging; 2: Discharging; 3: Standby; 4: Sleep; 5: SOC/SOH Correction; 6: Heating;
Voltage	RO	UINT16	V	10	1	10433	
Power	RO	INT32	W	1	2	10434	
SOC	RO	UINT16	%	1	1	10436	
SOH	RO	UINT16	%	1	1	10437	
Total Discharge Energy	RO	UINT32	kWh	10	2	10438	
Maximum Temperature	RO	UINT16	°C	1	1	10440	
Minimum Temperature	RO	UINT16	°C	1	1	10441	
Reserved					10	10442	

Classification - Battery - Pack 4 Information

End Point	R/W	Type	Unit	Gain	Number	Address	Comment
Model Name	RO	STRING	/	/	10	10452	
SN	RO	STRING	/	/	12	10462	
Software Version	RO	STRING	/	/	6	10474	
Hardware Version	RO	STRING	/	/	6	10480	
Rate Capacity	RO	UINT32	kWh	10	2	10486	
Staats	RO	UINT16	/	/	1	10488	1: Charging; 2: Discharging; 3: Standby; 4: Sleep; 5: SOC/SOH Correction; 6: Heating;
Voltage	RO	UINT16	V	10	1	10489	
Power	RO	INT32	W	1	2	10490	
SOC	RO	UINT16	%	1	1	10492	
SOH	RO	UINT16	%	1	1	10493	
Total Discharge Energy	RO	UINT32	kWh	10	2	10494	
Maximum Temperature	RO	UINT16	°C	1	1	10496	
Minimum Temperature	RO	UINT16	°C	1	1	10497	
Reserved					10	10498	

Classification - Battery - Pack 5 Information

End Point	R/W	Type	Unit	Gain	Number	Address	Comment
Model Name	RO	STRING	/	/	10	10508	
SN	RO	STRING	/	/	12	10518	
Software Version	RO	STRING	/	/	6	10530	
Hardware Version	RO	STRING	/	/	6	10536	
Rate Capacity	RO	UINT32	kWh	10	2	10542	
Stauts	RO	UINT16	/	/	1	10544	1: Charging; 2: Discharging; 3: Standby; 4: Sleep; 5: SOC/SOH Correction; 6: Heating;
Volatge	RO	UINT16	V	10	1	10545	
Power	RO	INT32	W	1	2	10546	
SOC	RO	UINT16	%	1	1	10548	
SOH	RO	UINT16	%	1	1	10549	
Total Discharge Energy	RO	UINT32	kWh	10	2	10550	
Maximum Temperature	RO	UINT16	°C	1	1	10552	
Minimum Temperature	RO	UINT16	°C	1	1	10553	
Reserved					10	10554	

Classification - Battery - Pack 6 Information

End Point	R/W	Type	Unit	Gain	Number	Address	Comment
Model Name	RO	STRING	/	/	10	10564	
SN	RO	STRING	/	/	12	10574	
Software Version	RO	STRING	/	/	6	10586	
Hardware Version	RO	STRING	/	/	6	10592	
Rate Capacity	RO	UINT32	kWh	10	2	10598	
Stauts	RO	UINT16	/	/	1	10600	1: Charging; 2: Discharging; 3: Standby; 4: Sleep; 5: SOC/SOH Correction; 6: Heating;
Volatge	RO	UINT16	V	10	1	10601	
Power	RO	INT32	W	1	2	10602	
SOC	RO	UINT16	%	1	1	10604	
SOH	RO	UINT16	%	1	1	10605	
Total Discharge Energy	RO	UINT32	kWh	10	2	10606	
Maximum Temperature	RO	UINT16	°C	1	1	10608	
Minimum Temperature	RO	UINT16	°C	1	1	10609	
Reserved					10	10610	

Classification - Meter - Meter Information							
End Point	R/W	Type	Unit	Gain	Number	Address	Comment
Meter Model	RO	/	/	10	10	10620	
Meter Type	RO	/	/	1	1	10630	1: Single Phase 2: Three Phase
Meter Status	RO	/	/	1	1	10631	
Phase A Voltage	RO	V	10	1	1	10632	
Phase B Voltage	RO	V	10	1	1	10633	
Phase C Voltage	RO	V	10	1	1	10634	0: Normal; 1: Offline; 3: Fault;
Phase A Current	RO	A	100	1	1	10635	
Phase B Current	RO	A	100	1	1	10636	
Phase C Current	RO	A	100	1	1	10637	
Phase A Active Power	RO	W	1	2	2	10638	
Phase B Active Power	RO	W	1	2	2	10640	
Phase C Active Power	RO	W	1	2	2	10642	
Total Active Power	RO	W	1	2	2	10644	
Total Reactive Power	RO	W	1	2	2	10646	
Power Factor	RO	/	1000	1	1	10648	
Grid Frequency	RO	HZ	100	1	1	10649	
Phase A Forward Active Energy	RO	kWh	10	2	2	10650	
Phase B Forward Active Energy	RO	kWh	10	2	2	10652	
Phase C Forward Active Energy	RO	kWh	10	2	2	10654	
Total Forward Active Energy	RO	kWh	10	2	2	10656	
Phase A Reverse Active Energy	RO	kWh	10	2	2	10658	
Phase B Reverse Active Energy	RO	kWh	10	2	2	10660	
Phase C Reverse Active Energy	RO	kWh	10	2	2	10662	
Total Reverse Active Energy	RO	kWh	10	2	2	10664	
Reserved				10	10	10666	

ALARM INFO

End Point	R/W	Unit	Gain	Number	BIT	5102/5103
System Alarm 1 10042	RO	/	/	1	bit0	EEPROM read and write error
	RO	/	/	1	bit1	Flash read and write error
	RO	/	/	1	bit2	/
	RO	/	/	1	bit3	DCAC communication failure
	RO	/	/	1	bit4	BMS communication failure
	RO	/	/	1	bit5	Meter 1 communication failure
	RO	/	/	1	bit6	Meter 2 communication failure
	RO	/	/	1	bit7	/
	RO	/	/	1	bit8	/
	RO	/	/	1	bit9	/
	RO	/	/	1	bit10	/
	RO	/	/	1	bit11	/
	RO	/	/	1	bit12	/
	RO	/	/	1	bit13	/
	RO	/	/	1	bit14	/
	RO	/	/	1	bit15	/
System Alarm 2 10043	RO	/	/	1	bit0	/
	RO	/	/	1	bit1	/
	RO	/	/	1	bit2	/
	RO	/	/	1	bit3	/
	RO	/	/	1	bit4	/
	RO	/	/	1	bit5	Incorrect meter communication address
	RO	/	/	1	bit6	/
	RO	/	/	1	bit7	/
	RO	/	/	1	bit8	/
	RO	/	/	1	bit9	/
	RO	/	/	1	bit10	/
	RO	/	/	1	bit11	/
	RO	/	/	1	bit12	/
	RO	/	/	1	bit13	/
	RO	/	/	1	bit14	/
	RO	/	/	1	bit15	/

End Point	R/W	Unit	Gain	Number	BIT	5102/5103
System Alarm 3 10044	RO	/	/	1	bit0	/
	RO	/	/	1	bit1	/
	RO	/	/	1	bit2	/
	RO	/	/	1	bit3	/
	RO	/	/	1	bit4	/
	RO	/	/	1	bit5	/
	RO	/	/	1	bit6	/
	RO	/	/	1	bit7	/
	RO	/	/	1	bit8	/
	RO	/	/	1	bit9	/
	RO	/	/	1	bit10	/
	RO	/	/	1	bit11	/
	RO	/	/	1	bit12	/
	RO	/	/	1	bit13	/
	RO	/	/	1	bit14	/
	RO	/	/	1	bit15	/
System Alarm 4 10045	RO	/	/	1	bit0	/
	RO	/	/	1	bit1	/
	RO	/	/	1	bit2	/
	RO	/	/	1	bit3	/
	RO	/	/	1	bit4	/
	RO	/	/	1	bit5	/
	RO	/	/	1	bit6	/
	RO	/	/	1	bit7	/
	RO	/	/	1	bit8	/
	RO	/	/	1	bit9	/
	RO	/	/	1	bit10	/
	RO	/	/	1	bit11	Grid CT failure
	RO	/	/	1	bit12	Self-check failure
	RO	/	/	1	bit13	/
	RO	/	/	1	bit14	/
	RO	/	/	1	bit15	/

End Point	R/W	Unit	Gain	Number	BIT	5102/5103
System Alarm 5 10046	RO	/	/	1	bit0	Gird L1 CT connection abnormality
	RO	/	/	1	bit1	Gird L2 CT connection abnormality
	RO	/	/	1	bit2	Gird L3 CT connection abnormality
	RO	/	/	1	bit3	/
	RO	/	/	1	bit4	/
	RO	/	/	1	bit5	/
	RO	/	/	1	bit6	/
	RO	/	/	1	bit7	/
	RO	/	/	1	bit8	/
	RO	/	/	1	bit9	/
	RO	/	/	1	bit10	/
	RO	/	/	1	bit11	/
	RO	/	/	1	bit12	/
	RO	/	/	1	bit13	/
	RO	/	/	1	bit14	/
	RO	/	/	1	bit15	/
System Alarm 6 10047	RO	/	/	1	bit0	/
	RO	/	/	1	bit1	/
	RO	/	/	1	bit2	/
	RO	/	/	1	bit3	/
	RO	/	/	1	bit4	/
	RO	/	/	1	bit5	/
	RO	/	/	1	bit6	/
	RO	/	/	1	bit7	/
	RO	/	/	1	bit8	/
	RO	/	/	1	bit9	/
	RO	/	/	1	bit10	/
	RO	/	/	1	bit11	/
	RO	/	/	1	bit12	/
	RO	/	/	1	bit13	/
	RO	/	/	1	bit14	/
	RO	/	/	1	bit15	/

End Point	R/W	Unit	Gain	Number	BIT	5102/5103
System Alarm 7 10048	RO	/	/	1	bit0	/
	RO	/	/	1	bit1	/
	RO	/	/	1	bit2	/
	RO	/	/	1	bit3	/
	RO	/	/	1	bit4	Modbus communication timeout
	RO	/	/	1	bit5	/
	RO	/	/	1	bit6	/
	RO	/	/	1	bit7	/
	RO	/	/	1	bit8	/
	RO	/	/	1	bit9	/
	RO	/	/	1	bit10	/
	RO	/	/	1	bit11	/
	RO	/	/	1	bit12	/
	RO	/	/	1	bit13	/
	RO	/	/	1	bit14	/
	RO	/	/	1	bit15	/
System Alarm 8 10049	RO	/	/	1	bit0	/
	RO	/	/	1	bit1	/
	RO	/	/	1	bit2	/
	RO	/	/	1	bit3	/
	RO	/	/	1	bit4	/
	RO	/	/	1	bit5	/
	RO	/	/	1	bit6	/
	RO	/	/	1	bit7	/
	RO	/	/	1	bit8	/
	RO	/	/	1	bit9	/
	RO	/	/	1	bit10	/
	RO	/	/	1	bit11	/
	RO	/	/	1	bit12	/
	RO	/	/	1	bit13	/
	RO	/	/	1	bit14	/
	RO	/	/	1	bit15	/