



EPEVER

Various off-network products + communication accessories

Selection instructions and diagrams



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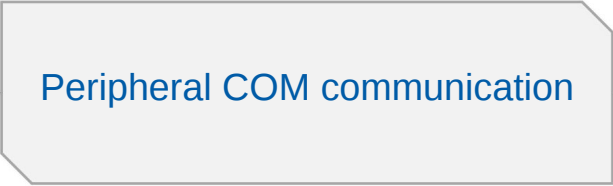
[Peripheral COM Communication]

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[Parallel CAN Communication]



Peripheral COM communication

I. Product COM Port Classification

1. COM port — RJ45:



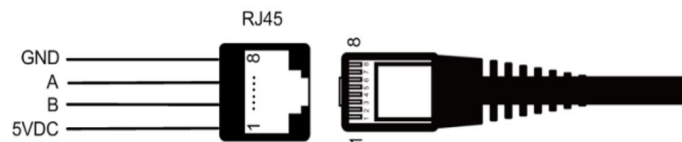
控制器: XTRA-N/G3、Tracer-AN/G3、IT/ET-NC G3、TRIRON、Tracer-BN、MSC-N、GoMote、LS-B、VS-BN

正弦波逆变器: IP-Plus、IPT、IPB、IPower、IP-Plus-PD65、NPower

离网储能逆变器: UPower、HP-AHP20SA、HP-AHP20A、UC/UCP、KR/KRP、KP、QI

储能电源: HPS-AHL、HP-AL-S

Pins	Definition	Pins	Definition
1	5VDC	5	RS-485-A
2	5VDC	6	RS-485-A
3	RS-485-B	7	GND
4	RS-485-B	8	GND



2.COM port—3.81 4P:



控制器: eTracer、iTracer、DuoRacer

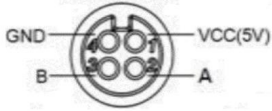


I. Product COM Port Classification

3.COM port—4M12(F):



控制器: LS-BP、Tracer-BP、Tracer-BPL、Tracer-CPN

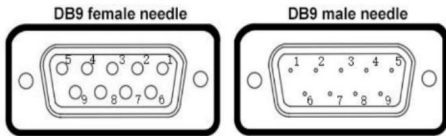


Pin	Definition	Pin	Definition
1	5VDC	3	RS485-B
2	RS485-A	4	GND

4.COM port—DB9(F):



离网储能逆变器: UP-Hi



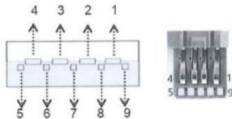
Pin	Definition	Pin	Definition
1-2	NC	6	NC
3	+12VDC	7	RS485-A
4	GND2(+12VDC power ground)	8	RS485-B
5	GND1(+5VDC power ground)	9	+5VDC

5. COM port — USB-A 3.0:



离网储能逆变器: HP-P65、HP-P30、MP-P65

储能电源: ROH



Pin	Definition	Pin	Definition
1	VBUS (5VDC)	5	RS485-A
2	D+	6	RS485-B
3	D-	7/8/9	NC
4	GND1		

II. USB cable + PC software

1

CC-USB-RS485-150U

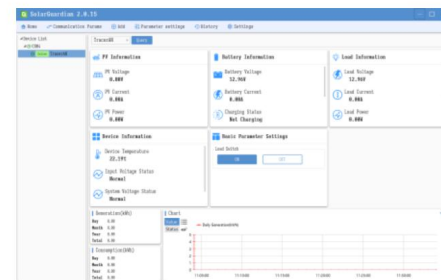

2

CC-USB-3.81-150


3

CC-USB-4M12(M)-150


1. Solar Guardian PC software download link:

<http://www.epever.com.cn/downsoft.html>


2. USB + PC software local monitoring—demonstration video:



1. USB-PC Software.mp4

3. Other Notes: 1.

The communication cable shown in the right-hand diagram (red text) needs to be

purchased separately; 2. In addition to enabling Scada monitoring, firmware upgrades are also possible.

II. USB cable + PC software

4

CC-USB-DB9(M)-150



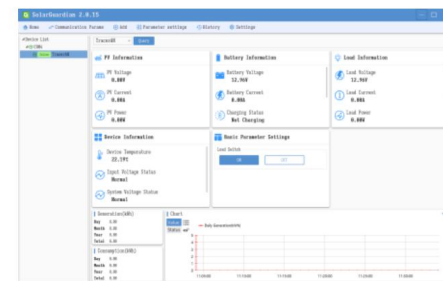
5

CC-USB2.0-USB3.0-150



1. Solar Guardian PC software download link:

<http://www.epever.com.cn/downsoft.html>



2. USB + PC software local monitoring—demonstration video:



1. USB-PC Software.mp4

3. Other Notes : 1.

The communication cable (green text) shown in the right figure is a standard accessory and

does not need to be

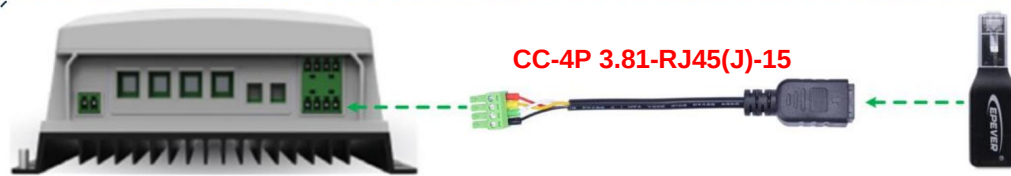
purchased separately. 2. In addition to enabling Scada monitoring, it also allows for firmware upgrades.

III. Bluetooth/WiFi + APP

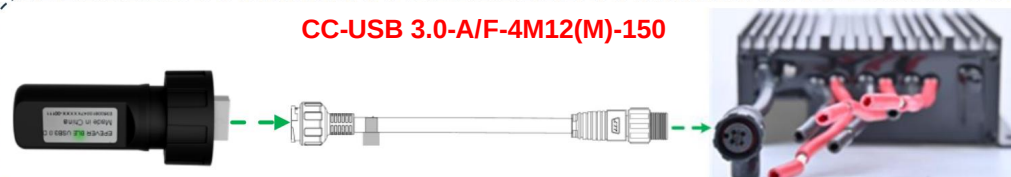
1



2



3



1. Solar Guardian APP download link:

<http://www.epever.com.cn/downsoft.html>



2. Bluetooth/WiFi + APP local/remote — Demo video:



2-1. Wifi D adapter-Local mode.mp4



2-2. Wifi D adapter-Cloud mode.mp4



2-3. BLE D adapter- Local mode.mp4

3. Other Notes: In addition

to the Bluetooth and WiFi modules, which need to be purchased separately, the communication cable or adapter

(highlighted in red) shown in the right-hand diagram also needs to be purchased separately.

III. Bluetooth/WiFi + APP

4



DB9(M)-RJ45(J)-NS-ACC



5



WiFi model: EPEVER WIFI 2.4G RJ45 D; EPEVER WIFI 2.4G USB3.0 D

Bluetooth models: EPEVER BLE RJ45 D; EPEVER BLE USB3.0 D

Adapter cable for USB-A 3.0 port products + RJ45 D module: CC-USB-A 3.0(M)-

RJ45(J)-150; **Adapter cable for 4M12(F) port products + RJ45 D module:** CC-4M12(M)-RJ45(J)-020

Note: When using a non-waterproof module (RJ45 D) with a product with a high protection rating (IP65 and above), additional waterproof and dustproof treatment is required!

1. Solar Guardian APP download link:

<http://www.epever.com.cn/downsoft.html>



2. Bluetooth/WiFi + APP local/remote connection — Demo video:



2-1. Wifi D adapter-Local mode.mp4



2-2. Wifi D adapter-Cloud mode.mp4



2-3. BLE D adapter- Local mode.mp4

3. Other instructions

Besides the Bluetooth and WiFi modules, which need to be purchased separately, the communication cable shown in the right picture is also included.

Alternatively, the adapter (highlighted in red) also needs to be purchased separately.

IV. TCP 306+APP

1



2



3



1. Solar Guardian APP download link:

<http://www.epever.com.cn/downsoft.html>



2. TCP 306+APP Remote Monitoring—Demonstration Video:



3. TCP 306 - Cloud mode.mp4

3. Other Notes a.

TCP 306 is configured for cloud mode by default at the factory. (If project application...)

For LAN mode, please communicate with the IoT project team in advance for a solution; b. In

addition to the TCP

306 module which needs to be purchased separately, the communication cable shown in the right figure...

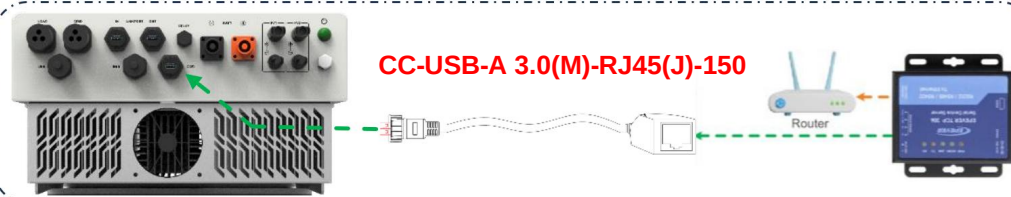
Alternatively, the adapter (highlighted in red) also needs to be purchased separately.

IV. TCP 306+APP

DB9(M)-RJ45(J)-NS-ACC



CC-USB-A 3.0(M)-RJ45(J)-150



TCP 306 Model: EPEVER TCP 306 Note: This module has

an IP30 protection rating. When used with products that have a higher protection rating, additional waterproof and dustproof treatment is required!

1. Solar Guardian APP download link:

<http://www.epever.com.cn/downsoft.html>



2. TCP 306+APP Remote Monitoring—Demonstration Video:



3. TCP 306 - Cloud mode.mp4

3. Other Notes a.

TCP 306 is configured for cloud mode by default at the factory. (If project application...)

For LAN mode, please communicate with the IoT project team in advance for a solution; b. In

addition to the TCP

306 module which needs to be purchased separately, the communication cable shown in the right figure...

Alternatively, the adapter (highlighted in red) also needs to be purchased separately.

V. RTU 4G + APP

1



2

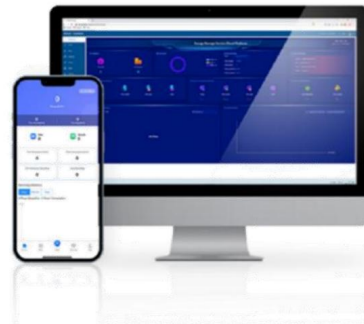


3



1. Solar Guardian APP download link:

<http://www.epeer.com.cn/downsoft.html>



2. RTU 4G + APP Remote Monitoring - Demo Video:



4. RTU 4G-Cloud mode.mp4

3. Other notes a. An

external antenna (included with the product) must be connected when using the RTU.

Otherwise, it may be impossible to access the cloud!

b. Before purchasing an RTU, it is necessary to collect information on the user's SIM card provider and...

VPN information, forwarded to the IoT project team for compatibility confirmation;

c. Aside from the RTU 4G module, which needs to be purchased separately, the communication cable or adapter shown in the right-hand diagram is also required.

The connector (in red) also needs to be purchased separately.

V. RTU 4G + APP

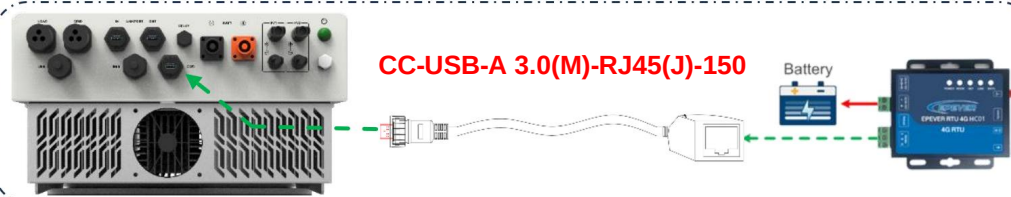
4

DB9(M)-RJ45(J)-NS-ACC



5

CC-USB-A 3.0(M)-RJ45(J)-150



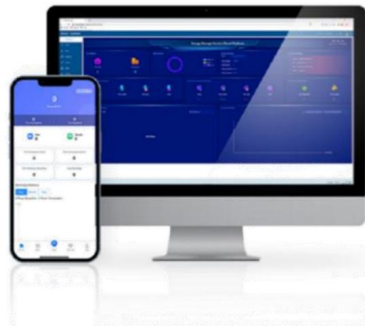
RTU 4G module models:

EPEVER RTU 4G HC01 (domestic version), EPEVER RTU 4G HE01 (international version). Note: This module has

an IP30 protection rating. When used with products with higher protection ratings, additional waterproof and dustproof treatment is required!

1. Solar Guardian APP download link:

<http://www.epever.com.cn/downsoft.html>



2. RTU 4G + APP Remote Monitoring - Demo Video:



4. RTU 4G-Cloud mode.mp4

3. Other notes a. An

external antenna (included with the product) must be connected when using the RTU.

Otherwise, it may be impossible to access the cloud!

b. Before purchasing an RTU, it is necessary to collect information on the user's SIM card provider and...

VPN information, forwarded to the IoT project team for compatibility confirmation;

c. Aside from the RTU 4G module, which needs to be purchased separately, the communication cable or adapter shown in the right-hand diagram is also required.

The connector (in red) also needs to be purchased separately.

VI. eLog G3 & RJ45-1M*S

1



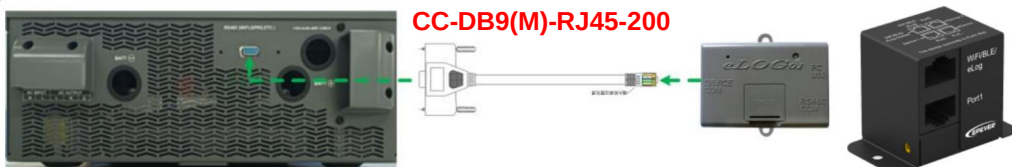
2



3



4



1. Solar Guardian APP download link:

<http://www.epever.com.cn/downsoft.html>



2. eLog01-G3 Configuration/Data Download—Demonstration Video:



5-1. eLog Configuration.mp4



5-2. Export log.mp4

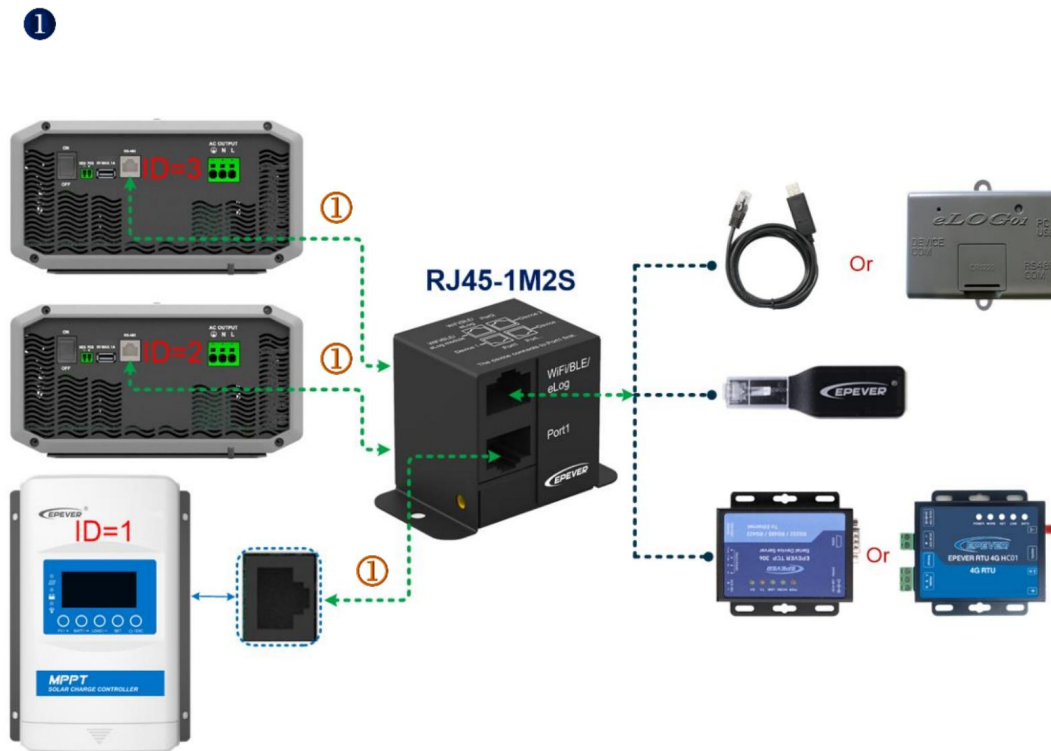
3. Other Notes: In

addition to the eLog01-G3 and RJ45-1M*S modules, which need to be purchased separately, the

communication cable or adapter (highlighted in red) shown in the right figure also needs to be

purchased separately .

VII. Other Application Diagrams



Notes: 1. This

application solution requires the purchase of "RJ45-1M2S" / "RJ45-1M6S", and a communication connection cable;

2. For communication line Y, please refer to section "VI. eLog G3 & 1M2S & MT" for selection.

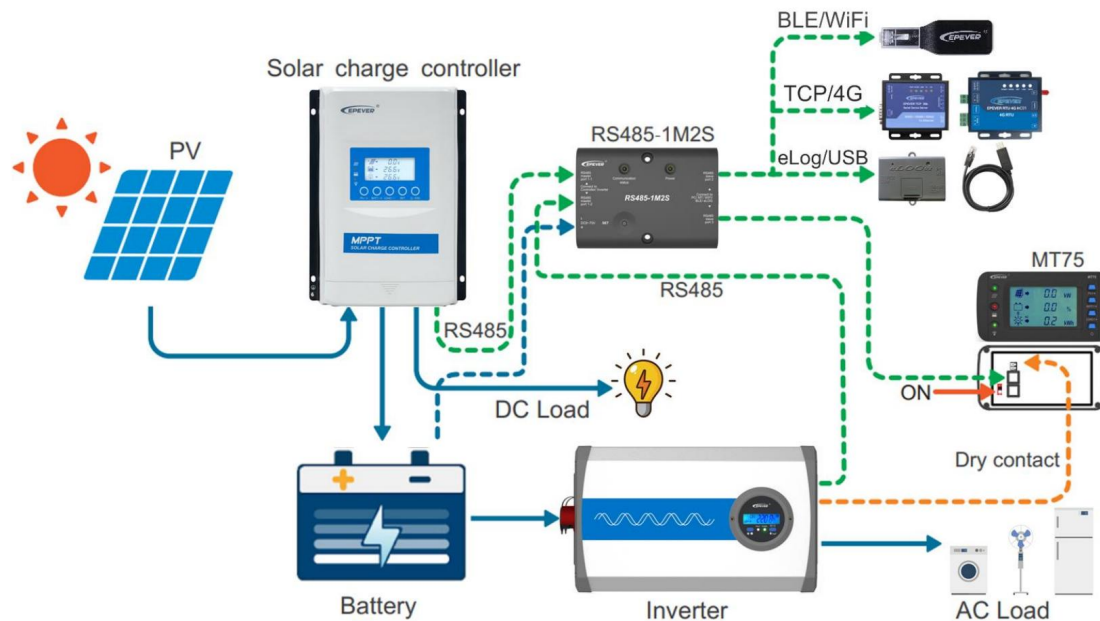
3. The IDs of 2/3 devices must be different. EPEVER's default device ID is: Controller ID=1; Sine wave inverter ID=3; UPower, UPower-Hi, and MT80=10; Other product ID=1. If the user has modified the device ID, please follow the actual ID for subsequent operations;

4. When establishing a communication connection, different devices need to be added based on their device IDs. The list can only monitor one device at a time.

5. For operation steps, please refer to the demonstration video of the corresponding module.

VII. Other Application Diagrams

2



Notes: 1. The

MT75 can simultaneously monitor the operating status of both the controller and the sine wave inverter.

It can control the DC load output and the start/stop of the inverter (manually or automatically according to the battery voltage);

2. Additionally, the RS485-1M2S can also connect to other peripherals simultaneously (such as Bluetooth, etc.).

(Wi-Fi, USB cable, etc.) can be used to control the device via an app or PC software.

Remote monitoring and parameter setting of the inverter or sine wave inverter;

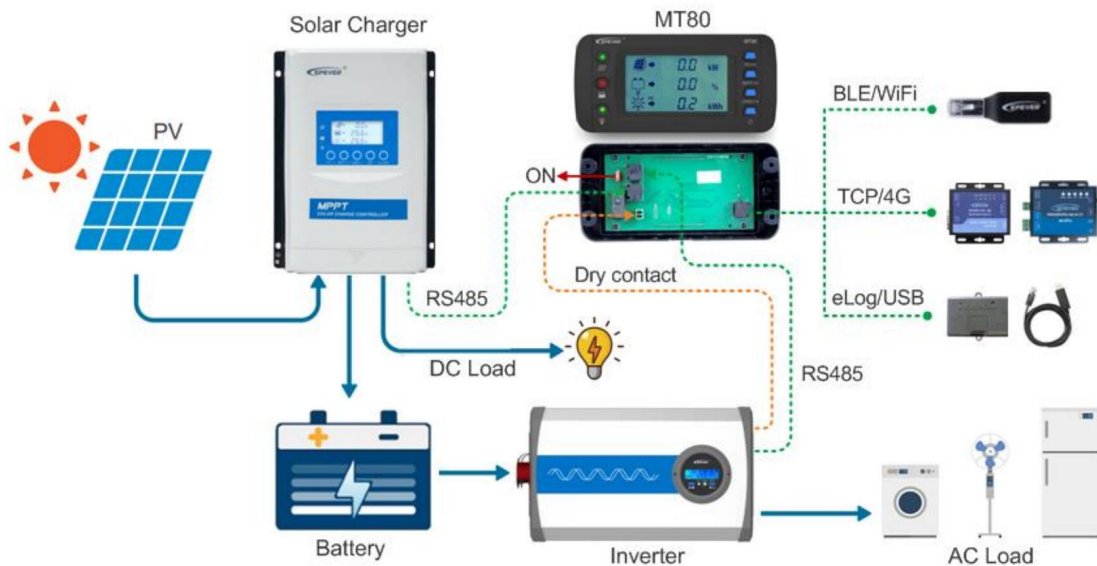
3. The controller ID must be 1 (this solution is only recommended for MPPT controllers), and the sine wave inverter ID must be 3 in order to be monitored simultaneously;

4. The "Device Switch" of the sine wave inverter must be set to OFF, and the "Dry Contact Interface Enable Switch" of the MT75 must be set to ON in order to control the start/stop of the sine wave inverter through the MT75;

5. For operation steps, please refer to the demonstration video of the corresponding module.

VII. Other Application Diagrams

3



Notes: 1. The

MT80 can simultaneously monitor the operating status of the controller and the sine wave inverter.

It can control the DC load output and the start/stop of the inverter (manually or according to battery voltage);

2. Additionally, the MT80 can connect to other peripherals (such as Bluetooth, WiFi, etc.).

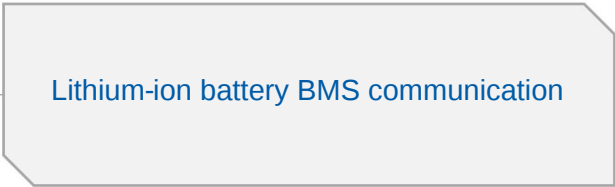
USB cable, etc., to control the controller or... via APP or PC software.

Remote monitoring and parameter setting of sine wave inverters.

3. The controller ID must be 1 (this solution is only recommended for MPPT controllers), and the sine wave inverter ID must be 3 in order to be monitored simultaneously;

4. The "Device Switch" of the sine wave inverter must be set to the OFF state, and the "Dry Contact Interface Enable Switch" of the MT80 must be set to the ON state in order to control the start/stop of the sine wave inverter through the MT80;

5. For operation steps, please refer to the demonstration video of the corresponding module.



Lithium-ion battery BMS communication

I. Product BMS Port Classification



1. Product + BMS-Link module — RJ45:



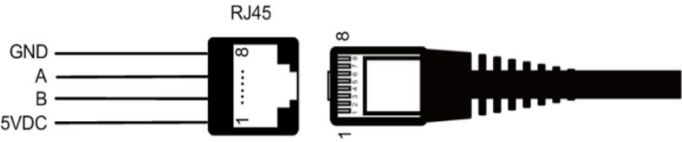
控制器：XTRA-N G3+BMS-Link模块、Tracer-AN G3 +BMS-Link模块、IT/ET-NC G3 +BMS-Link模块
离网储能逆变器：UP-Hi +BMS-Link模块

2. BMS port—RJ45:



离网储能逆变器（BMS-Link模块内置）：HP-AHP20SA、HP-AHP20A、HP-P30、HP-P65、UC/UCP、KR/KRP、KP、QI

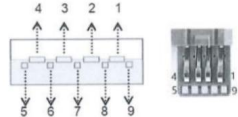
Pins	Definition	Pins	Definition
1	5VDC	5	RS-485-A
2	5VDC	6	RS-485-A
3	RS-485-B	7	GND
4	RS-485-B	8	GND



3. BMS port—USB-A 3.0:

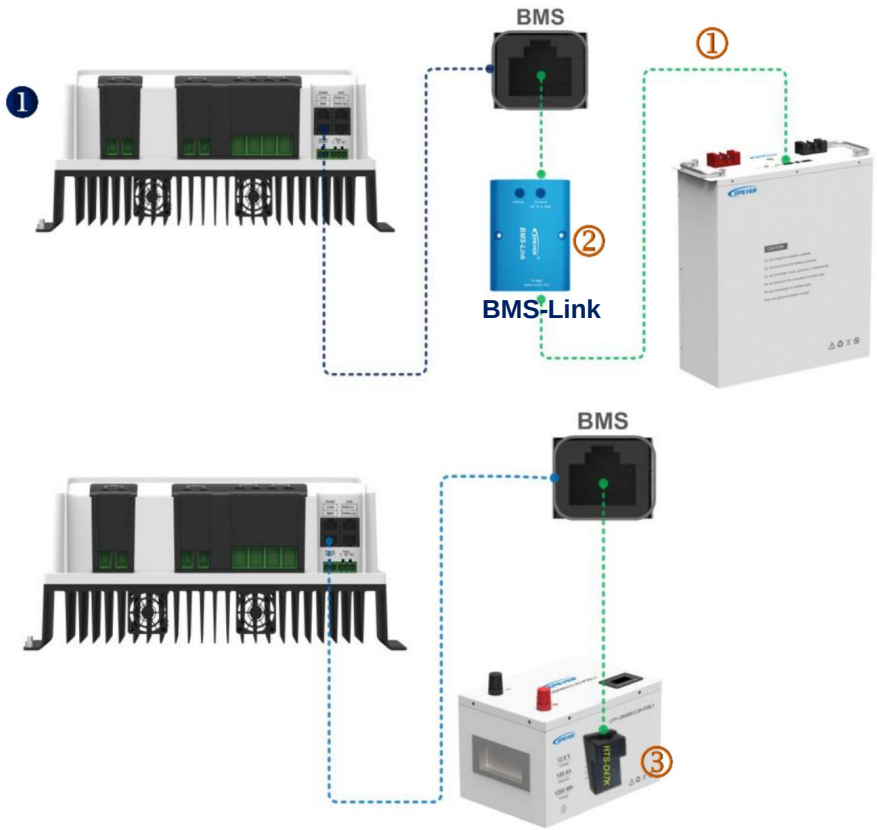


离网储能逆变器（BMS-Link模块内置）：MP-P65



Pin	Definition	Pin	Definition
1/2//3/4/5/6	NC	7	GND
		8	RS485-A
		9	RS485-B

II. Wiring Diagram



Notes: 1. Models

with a built-in BMS-Link module do not require the purchase of an external BMS-Link module;

2. For compatible lithium battery manufacturers and BMS versions, please refer to the product specifications. The image below is for reference only.

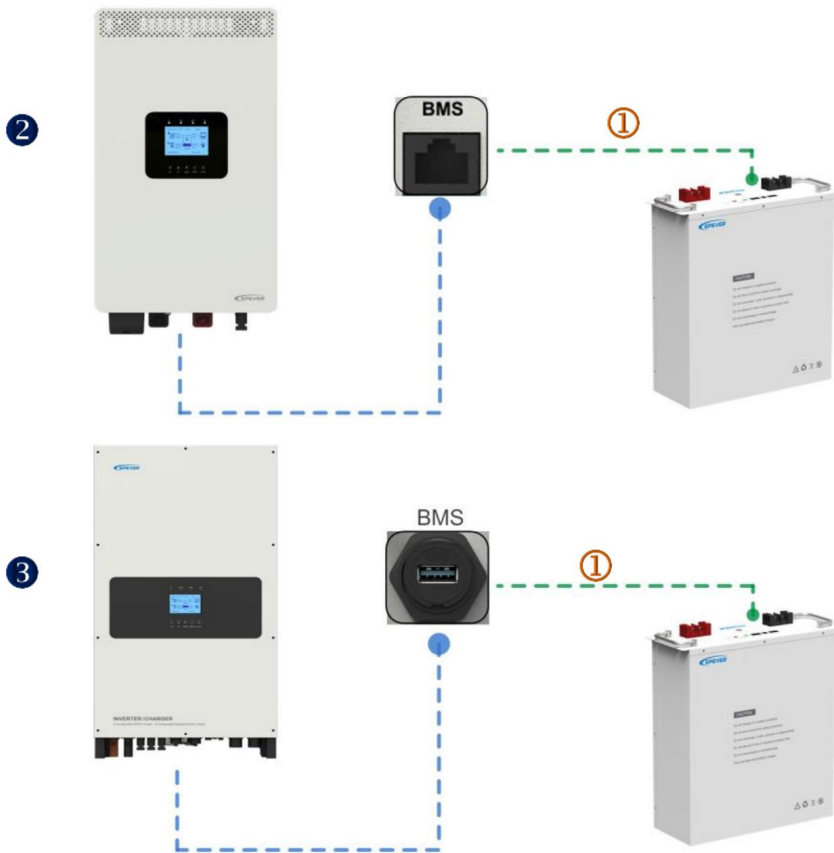
Supported BMS Communication Protocols				
Model	Manufacturer	Protocol Name	Protocol Type	Read ID
1	Arade	Arade BMS Protocol V1.0 (V1.0)	Modbus	0x01
2	Arade	Arade BMS Protocol V2.0 (V2.0)	Modbus	0x02
3	Arade	Arade BMS Protocol V3.0 (V3.0)	Modbus	0x03
4	Arade	Arade BMS Protocol V4.0 (V4.0)	Modbus	0x04
5	Arade	Arade BMS Protocol V5.0 (V5.0)	Modbus	0x05
6	Arade	Arade BMS Protocol V6.0 (V6.0)	Modbus	0x06
7	Arade	Arade BMS Protocol V7.0 (V7.0)	Modbus	0x07
8	Arade	Arade BMS Protocol V8.0 (V8.0)	Modbus	0x08
9	Arade	Arade BMS Protocol V9.0 (V9.0)	Modbus	0x09
10	Arade	Arade BMS Protocol V10.0 (V10.0)	Modbus	0x0A
11	Arade	Arade BMS Protocol V11.0 (V11.0)	Modbus	0x0B
12	Arade	Arade BMS Protocol V12.0 (V12.0)	Modbus	0x0C
13	Arade	Arade BMS Protocol V13.0 (V13.0)	Modbus	0x0D
14	Arade	Arade BMS Protocol V14.0 (V14.0)	Modbus	0x0E
15	Arade	Arade BMS Protocol V15.0 (V15.0)	Modbus	0x0F
16	Arade	Arade BMS Protocol V16.0 (V16.0)	Modbus	0x10
17	Arade	Arade BMS Protocol V17.0 (V17.0)	Modbus	0x11
18	Arade	Arade BMS Protocol V18.0 (V18.0)	Modbus	0x12
19	Arade	Arade BMS Protocol V19.0 (V19.0)	Modbus	0x13
20	Arade	Arade BMS Protocol V20.0 (V20.0)	Modbus	0x14
21	Arade	Arade BMS Protocol V21.0 (V21.0)	Modbus	0x15
22	Arade	Arade BMS Protocol V22.0 (V22.0)	Modbus	0x16
23	Arade	Arade BMS Protocol V23.0 (V23.0)	Modbus	0x17
24	Arade	Arade BMS Protocol V24.0 (V24.0)	Modbus	0x18
25	Arade	Arade BMS Protocol V25.0 (V25.0)	Modbus	0x19
26	Arade	Arade BMS Protocol V26.0 (V26.0)	Modbus	0x1A
27	Arade	Arade BMS Protocol V27.0 (V27.0)	Modbus	0x1B
28	Arade	Arade BMS Protocol V28.0 (V28.0)	Modbus	0x1C
29	Arade	Arade BMS Protocol V29.0 (V29.0)	Modbus	0x1D
30	Arade	Arade BMS Protocol V30.0 (V30.0)	Modbus	0x1E
31	Arade	Arade BMS Protocol V31.0 (V31.0)	Modbus	0x1F
32	Arade	Arade BMS Protocol V32.0 (V32.0)	Modbus	0x20
33	Arade	Arade BMS Protocol V33.0 (V33.0)	Modbus	0x21
34	Arade	Arade BMS Protocol V34.0 (V34.0)	Modbus	0x22
35	Arade	Arade BMS Protocol V35.0 (V35.0)	Modbus	0x23
36	Arade	Arade BMS Protocol V36.0 (V36.0)	Modbus	0x24
37	Arade	Arade BMS Protocol V37.0 (V37.0)	Modbus	0x25
38	Arade	Arade BMS Protocol V38.0 (V38.0)	Modbus	0x26
39	Arade	Arade BMS Protocol V39.0 (V39.0)	Modbus	0x27
40	Arade	Arade BMS Protocol V40.0 (V40.0)	Modbus	0x28
41	Arade	Arade BMS Protocol V41.0 (V41.0)	Modbus	0x29
42	Arade	Arade BMS Protocol V42.0 (V42.0)	Modbus	0x2A
43	Arade	Arade BMS Protocol V43.0 (V43.0)	Modbus	0x2B
44	Arade	Arade BMS Protocol V44.0 (V44.0)	Modbus	0x2C
45	Arade	Arade BMS Protocol V45.0 (V45.0)	Modbus	0x2D
46	Arade	Arade BMS Protocol V46.0 (V46.0)	Modbus	0x2E
47	Arade	Arade BMS Protocol V47.0 (V47.0)	Modbus	0x2F
48	Arade	Arade BMS Protocol V48.0 (V48.0)	Modbus	0x30
49	Arade	Arade BMS Protocol V49.0 (V49.0)	Modbus	0x31
50	Arade	Arade BMS Protocol V50.0 (V50.0)	Modbus	0x32
51	Arade	Arade BMS Protocol V51.0 (V51.0)	Modbus	0x33
52	Arade	Arade BMS Protocol V52.0 (V52.0)	Modbus	0x34
53	Arade	Arade BMS Protocol V53.0 (V53.0)	Modbus	0x35
54	Arade	Arade BMS Protocol V54.0 (V54.0)	Modbus	0x36
55	Arade	Arade BMS Protocol V55.0 (V55.0)	Modbus	0x37
56	Arade	Arade BMS Protocol V56.0 (V56.0)	Modbus	0x38
57	Arade	Arade BMS Protocol V57.0 (V57.0)	Modbus	0x39
58	Arade	Arade BMS Protocol V58.0 (V58.0)	Modbus	0x3A
59	Arade	Arade BMS Protocol V59.0 (V59.0)	Modbus	0x3B
60	Arade	Arade BMS Protocol V60.0 (V60.0)	Modbus	0x3C
61	Arade	Arade BMS Protocol V61.0 (V61.0)	Modbus	0x3D
62	Arade	Arade BMS Protocol V62.0 (V62.0)	Modbus	0x3E
63	Arade	Arade BMS Protocol V63.0 (V63.0)	Modbus	0x3F
64	Arade	Arade BMS Protocol V64.0 (V64.0)	Modbus	0x40
65	Arade	Arade BMS Protocol V65.0 (V65.0)	Modbus	0x41
66	Arade	Arade BMS Protocol V66.0 (V66.0)	Modbus	0x42
67	Arade	Arade BMS Protocol V67.0 (V67.0)	Modbus	0x43
68	Arade	Arade BMS Protocol V68.0 (V68.0)	Modbus	0x44
69	Arade	Arade BMS Protocol V69.0 (V69.0)	Modbus	0x45
70	Arade	Arade BMS Protocol V70.0 (V70.0)	Modbus	0x46
71	Arade	Arade BMS Protocol V71.0 (V71.0)	Modbus	0x47
72	Arade	Arade BMS Protocol V72.0 (V72.0)	Modbus	0x48
73	Arade	Arade BMS Protocol V73.0 (V73.0)	Modbus	0x49
74	Arade	Arade BMS Protocol V74.0 (V74.0)	Modbus	0x4A
75	Arade	Arade BMS Protocol V75.0 (V75.0)	Modbus	0x4B
76	Arade	Arade BMS Protocol V76.0 (V76.0)	Modbus	0x4C
77	Arade	Arade BMS Protocol V77.0 (V77.0)	Modbus	0x4D
78	Arade	Arade BMS Protocol V78.0 (V78.0)	Modbus	0x4E
79	Arade	Arade BMS Protocol V79.0 (V79.0)	Modbus	0x4F
80	Arade	Arade BMS Protocol V80.0 (V80.0)	Modbus	0x50
81	Arade	Arade BMS Protocol V81.0 (V81.0)	Modbus	0x51
82	Arade	Arade BMS Protocol V82.0 (V82.0)	Modbus	0x52
83	Arade	Arade BMS Protocol V83.0 (V83.0)	Modbus	0x53
84	Arade	Arade BMS Protocol V84.0 (V84.0)	Modbus	0x54
85	Arade	Arade BMS Protocol V85.0 (V85.0)	Modbus	0x55
86	Arade	Arade BMS Protocol V86.0 (V86.0)	Modbus	0x56
87	Arade	Arade BMS Protocol V87.0 (V87.0)	Modbus	0x57
88	Arade	Arade BMS Protocol V88.0 (V88.0)	Modbus	0x58
89	Arade	Arade BMS Protocol V89.0 (V89.0)	Modbus	0x59
90	Arade	Arade BMS Protocol V90.0 (V90.0)	Modbus	0x5A
91	Arade	Arade BMS Protocol V91.0 (V91.0)	Modbus	0x5B
92	Arade	Arade BMS Protocol V92.0 (V92.0)	Modbus	0x5C
93	Arade	Arade BMS Protocol V93.0 (V93.0)	Modbus	0x5D
94	Arade	Arade BMS Protocol V94.0 (V94.0)	Modbus	0x5E
95	Arade	Arade BMS Protocol V95.0 (V95.0)	Modbus	0x5F
96	Arade	Arade BMS Protocol V96.0 (V96.0)	Modbus	0x60
97	Arade	Arade BMS Protocol V97.0 (V97.0)	Modbus	0x61
98	Arade	Arade BMS Protocol V98.0 (V98.0)	Modbus	0x62
99	Arade	Arade BMS Protocol V99.0 (V99.0)	Modbus	0x63
100	Arade	Arade BMS Protocol V100.0 (V100.0)	Modbus	0x64

Other notes: 1.

The y communication line in the right figure needs to be made or ordered according to the different lithium battery pin definitions;

2. When the IT/ET-NC G3 series is used with EPEVER batteries or some Pyramid batteries, it can communicate directly without the need to purchase a BMS-Link module;

3. The XTRA G3 and Tracer-AN G3 series do not have a dedicated BMS communication port; a COM port must be reused. Only one of the peripheral COM communication function and lithium battery BMS communication function can be selected.



with a built-in BMS-Link module do not require the purchase of an external BMS-Link module;

2. For compatible lithium battery manufacturers and BMS versions, please refer to the product specifications. The image below is for reference only.

[illegible]

ID	Out ID	OUTER ID/OUT Connection/Port	Media	Notes
24	Source	Source ID=503	Media	17/06/2016
25	Destination	Destination ID=504	Media	0
26	Interface	Interface ID=505	Media	0
27	Interface	Interface ID=506	Media	0
28	Interface	Interface ID=507	Media	0
29	Interface	Interface ID=508	Media	0
30	Interface	Interface ID=509	Media	0
31	Interface	Interface ID=510	Media	0
32	Interface	Interface ID=511	Media	0
33	Interface	Interface ID=512	Media	0
34	Interface	Interface ID=513	Media	0
35	Interface	Interface ID=514	Media	0
36	Interface	Interface ID=515	Media	0
37	Interface	Interface ID=516	Media	0
38	Interface	Interface ID=517	Media	0
39	Interface	Interface ID=518	Media	0
40	Interface	Interface ID=519	Media	0
41	Interface	Interface ID=520	Media	0
42	Interface	Interface ID=521	Media	0
43	Interface	Interface ID=522	Media	0
44	Interface	Interface ID=523	Media	0
45	Interface	Interface ID=524	Media	0
46	Interface	Interface ID=525	Media	0
47	Interface	Interface ID=526	Media	0
48	Interface	Interface ID=527	Media	0
49	Interface	Interface ID=528	Media	0
50	Interface	Interface ID=529	Media	0
51	Interface	Interface ID=530	Media	0
52	Interface	Interface ID=531	Media	0
53	Interface	Interface ID=532	Media	0
54	Interface	Interface ID=533	Media	0
55	Interface	Interface ID=534	Media	0
56	Interface	Interface ID=535	Media	0
57	Interface	Interface ID=536	Media	0
58	Interface	Interface ID=537	Media	0
59	Interface	Interface ID=538	Media	0
60	Interface	Interface ID=539	Media	0
61	Interface	Interface ID=540	Media	0
62	Interface	Interface ID=541	Media	0
63	Interface	Interface ID=542	Media	0
64	Interface	Interface ID=543	Media	0
65	Interface	Interface ID=544	Media	0
66	Interface	Interface ID=545	Media	0
67	Interface	Interface ID=546	Media	0
68	Interface	Interface ID=547	Media	0
69	Interface	Interface ID=548	Media	0
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71	Interface	Interface ID=550	Media	0
72	Interface	Interface ID=551	Media	0
73	Interface	Interface ID=552	Media	0
74	Interface	Interface ID=553	Media	0
75	Interface	Interface ID=554	Media	0
76	Interface	Interface ID=555	Media	0
77	Interface	Interface ID=556	Media	0
78	Interface	Interface ID=557	Media	0
79	Interface	Interface ID=558	Media	0
80	Interface	Interface ID=559	Media	0
81	Interface	Interface ID=560	Media	0
82	Interface	Interface ID=561	Media	0
83	Interface	Interface ID=562	Media	0
84	Interface	Interface ID=563	Media	0
85	Interface	Interface ID=564	Media	0
86	Interface	Interface ID=565	Media	0
87	Interface	Interface ID=566	Media	0
88	Interface	Interface ID=567	Media	0
89	Interface	Interface ID=568	Media	0
90	Interface	Interface ID=569	Media	0
91	Interface	Interface ID=570	Media	0
92	Interface	Interface ID=571	Media	0
93	Interface	Interface ID=572	Media	0
94	Interface	Interface ID=573	Media	0
95	Interface	Interface ID=574	Media	0
96	Interface	Interface ID=575	Media	0
97	Interface	Interface ID=576	Media	0
98	Interface	Interface ID=577	Media	0
99	Interface	Interface ID=578	Media	0
100	Interface	Interface ID=579	Media	0

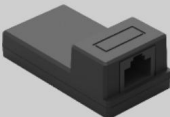
Other notes

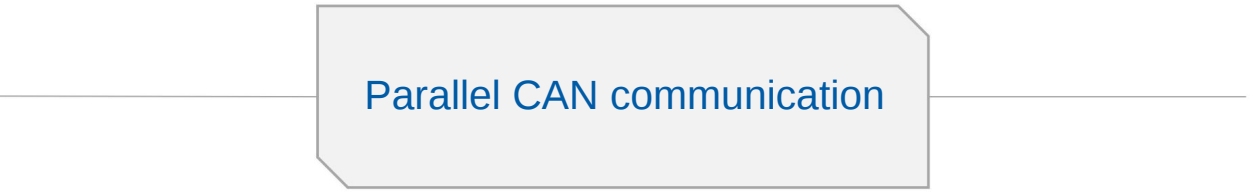
1. The communication cable marked $\bar{y}$ in the right-hand diagram needs to be custom-made or ordered according to the different lithium battery pin definitions; 2. IT/ET-NC G3 , HP, UC/UCP, KR/KRP, KP, and Qi series.

The BMS port can also be paired with the RTS-D47K temperature sensor, which can automatically compensate for the temperature of lead-

acid batteries to ensure accurate charge and discharge control.

III. Optional Accessories Summary

Part Number	Name	model	Illustration	use	Applicable product series
¥	RS485 to RS485 communication line	CC-RJ45-RJ45-150		Communication connection between the device and EPEVER's own lithium batteries	XTRA-N G3, Tracer-AN G3 IT/ET-NC G3, UP-Hi, HP-AHP20SA, HP-AHP20A HP-P30, HP-P65
	RS485 to RS485 communication line	CC-RJ45-RJ45-PYLON-200		Communication connection for devices and Pylon lithium batteries	UC/UCP, KR/KRP, KP QI
	RS485 to RS485 communication line	CC-RJ45-USB-A 3.0(M)-200		Communication connection between this device and EPEVER's own lithium batteries and Pylon lithium batteries.	MP-P65
¥	Communication protocol conversion module	BMS-Link		We convert the BMS protocols of different lithium battery manufacturers to our company's standard protocol, thereby enabling communication and management with the controller.	XTRA-N G3, Tracer-AN G3 IT/ET-NC G3, UP-Hi
¥	Remote temperature sensor	RTS-D47K		The device can collect the temperature of the battery and use this temperature to perform charge/discharge temperature compensation for lead-acid batteries, or to control the low-temperature charging/discharging of lead-to-lithium batteries.	IT/ET-NC G3, HP-AHP20SA, HP-AHP20A HP-P30, HP-P65 UC/UCP, KR/KRP, KP QI



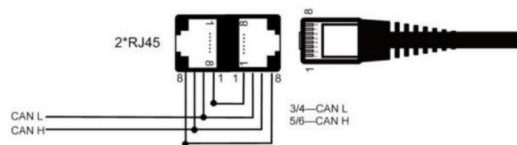
Parallel CAN communication

I. Product CAN Port Classification

1. CAN port—RJ45:



控制器: IT/ET-NC G3

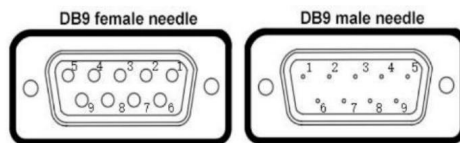


2. CAN port—DB9:



离网储能逆变器: HP-AHP20SA、HP-AHP20A、UC/UCP、KR/KRP、KP、HP-P30

储能电源: ROH

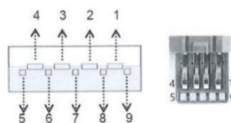


Pin	Definition	Pin	Definition
1	HFS-BUS	4	CAN-L
2	PFS-BUS	5	CAN-H
3	PS-GND	6/7/8/9	Reserved

3. CAN port — USB-A 3.0:

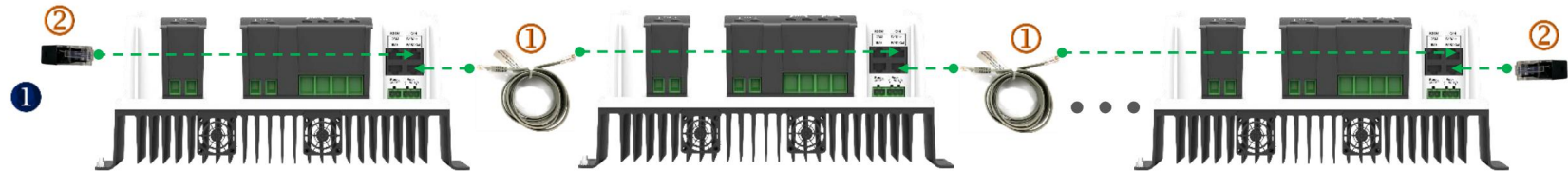


离网储能逆变器: HP-P65、MP-P65



Pin	Definition	Pin	Definition
1	NC	4	CAN-L
2	PFS-BUS	5	CAN-H
3	PS-GND	6/7/8/9	NC

II. Schematic Diagram and Optional Accessories

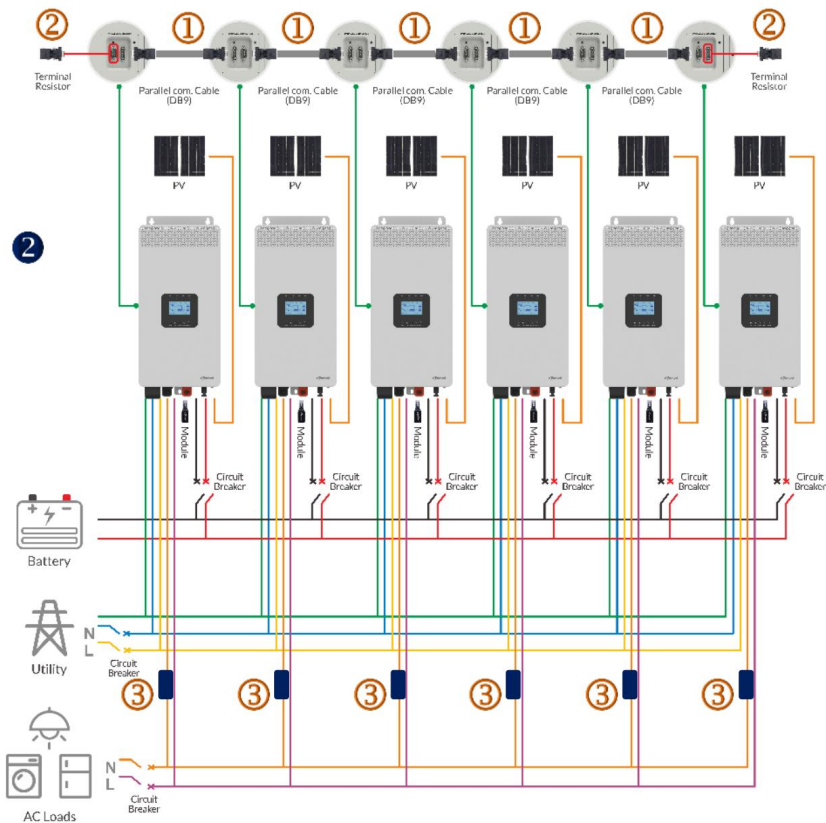


Part Number	name	model	Illustration	Dosage	
ÿ	CAN to CAN communication cable	CC-RJ45-RJ45-120		Usage = (Actual number of parallel units - 1) units Note: Standard network cables can be used instead.	Applicable product series: IT-NC G3, ET-NC G3
ÿ	CAN communication terminating resistor	RJ45-CAN-R120		Dosage = 2	

Other notes

In the diagram above, the ÿ "CAN to CAN communication cable" and ÿ "CAN communication terminating resistor" are essential components for parallel systems. Please purchase them separately according to your needs.

II. Schematic Diagram and Optional Accessories



Part Number	ÿ	ÿ
name	DB9 male-female connector 1.2m parallel connection signal line	CAN communication terminating resistor
Model	CAT.6-DB9(M)-DB9-120cm	DB9 parallel kits CAN - R120
Illustration		
Dosage	Usage = (Actual number of parallel units - 1) strip	Dosage = 1 set
Applicable product series: HP-AHP20SA, HP-AHP20A, UC/UCP, KR/KRP, KP, HP-P30, ROH		

Other notes

1. In the diagram on the right, the ÿ parallel communication line and the ÿ "CAN communication terminating resistor" are both parallel systems.

Essential accessories for the system; please purchase separately according to your needs.

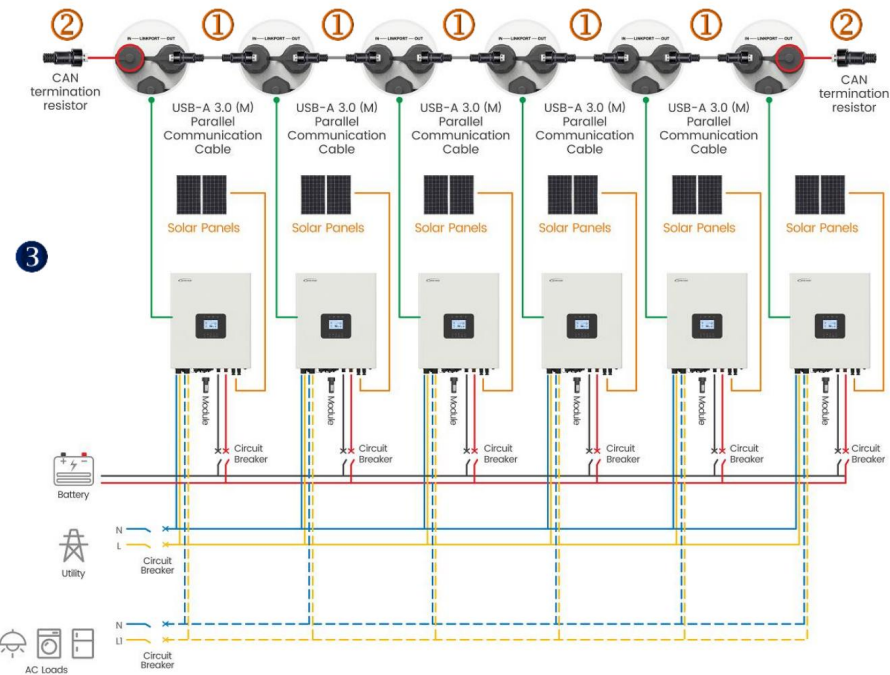
II. Schematic Diagram and Optional Accessories

Other notes

- 2. The "parallel inductor accessory" marked with $\bar{y}$ in the above diagram only needs to be purchased when the number of parallel units in each single system is >2 ; if it is $\bar{y}2$ units, it does not need to be purchased.
- 3. The minimum purchase quantity of "parallel inductor accessories" = $N (N>2)$, that is, it is selected one-to-one with the total number of equipment;
- 4. "Parallel Inductor Accessories" The required accessory models vary depending on the product model and must be selected accordingly. See the table below for details.

Part Number Name	model	Illustration	Dosage	Applicable product series	and model
$\bar{y}$	Parallel inductor accessories HP2022-AHP20A-BLDG		Dosage = $N (N>2)$	HP-AHP20SA, HP-AHP20A, UC/UCP, KR/KRP, KP	HP2042, HP2022
	Parallel inductor accessory HP3542-AHP20SA-BLDG				HP/UC/UCP/KR/KRP/KP3542 HP/UC/UCP/KR/KRP/KP3522 HP2041 HP2021
	Parallel inductor accessory HP5542-AHP20SA-BLDG				HP3521 HP3541 HP/UC/UCP/KR/KRP/KP5542 UC/KR6042
	Parallel inductor accessories HP6041-AHP20A-BLDG				HP6041

II. Schematic Diagram and Optional Accessories



Part Number	ÿ	ÿ
name	USB-A 3.0 (M) Parallel Communication Cable 120cm	CAN communication terminating resistor
Model	CAT.6-USB-A 3.0(M)-120cm	USB-A 3.0 (M)-CAN- R120
Illustration		
Usage	Usage = (Actual number of parallel units - 1) Usage = 2/units	
Applicable product series: HP-P65, MP-P65		

Other notes

In the diagram on the right, the parallel communication line (ÿ) and the "CAN communication terminating resistor" (ÿ) are both optional accessories.

Purchase separately as needed



Thank you

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