

Ruixu Battery + Solis Inverter quick installation guide

This is quick installation guide for RUIXU Lithi2-16+Solis S6-EH1P(3-6)K-L-AU / S6-EH1P(3-8)K-L-PLUS Hybrid inverter.

1. Single inverter + single battery installation

Purchase list:

1 x RUIXU Lithi2-16

1 x Solis S5-EH1P(3-6)K-L/S6-EH1P(3-6)K-L-AU /S6-EH1P(3-6)K-L-PLUS

1 x ZJ BENY Battery DC Breaker 500V/125A 2 pole (BDW-125)

1 x 2AWG positive DC cable

1 x 2AWG negative DC cable

Or

1 x RUIXU Lithi2-16

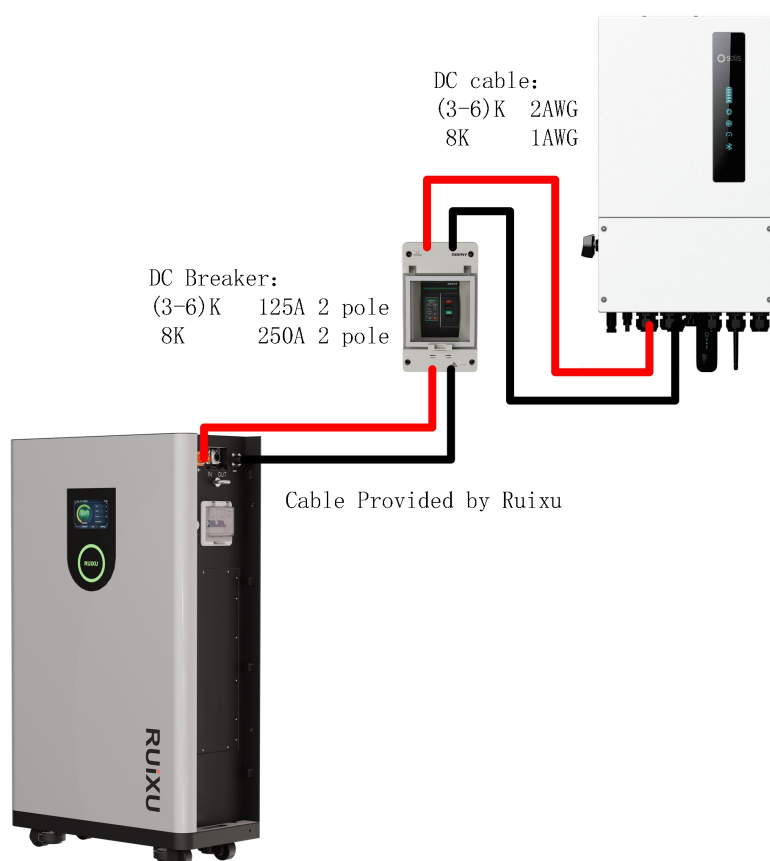
1 x Solis S6-EH1P8K-L-PLUS

1 x ZJ BENY Battery DC Breaker 500V/250A 2 pole (BDW-250)

1 x 1AWG positive DC cable

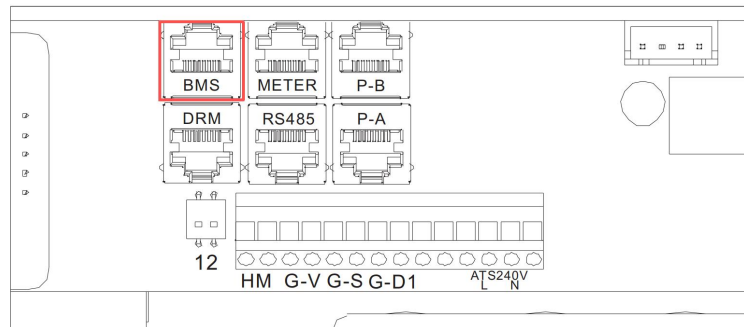
1 x 1AWG negative DC cable

DC connection:



Communication connection and setup:

Use the standard network cable provided by Ruixu to connect the “OUT” port of the battery to the “BMS” port on the inverter.



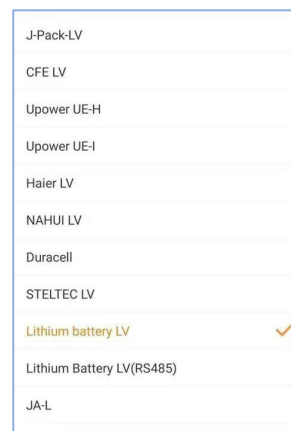
Battery Setting:

Please choose the relevant inverter brands from the battery display

Setting-->inverter settings-->select "Solis" or "PYLON" or "RUIXU"

SolisCloud APP Setting:

Select "Lithium battery LV" under "Battery module"



2. Single inverter + Multiple batteries installation

Purchase list:

n x RUIXU Lithi2-16

1 x Solis S5-EH1P(3-6)K-L/S6-EH1P(3-6)K-L-AU /S6-EH1P(3-6)K-L-PLUS

1 x ZJ BENY Battery DC Breaker 500V/125A 2 pole (BDW-125)

2 x 2AWG positive DC cable

2 x 2AWG negative DC cable

1 x RUIXU Busbar RX5600,Positive

1 x RUIXU Busbar RX5600,Negative

Or

n x RUIXU Lithi2-16

1 x Solis S6-EH1P8K-L-PLUS

1 x ZJ BENY Battery DC Breaker 500V/250A 2 pole (BDW-250)

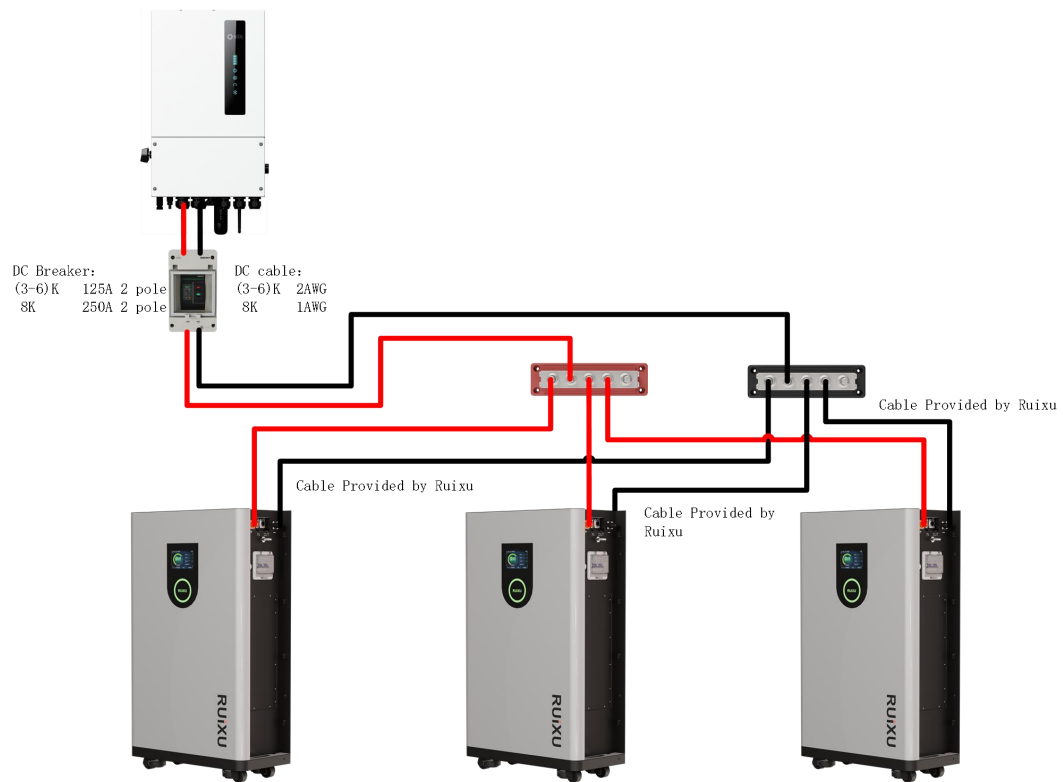
2 x 1AWG positive DC cable

2 x 1AWG negative DC cable

1 x RUIXU Busbar RX5600,Positive

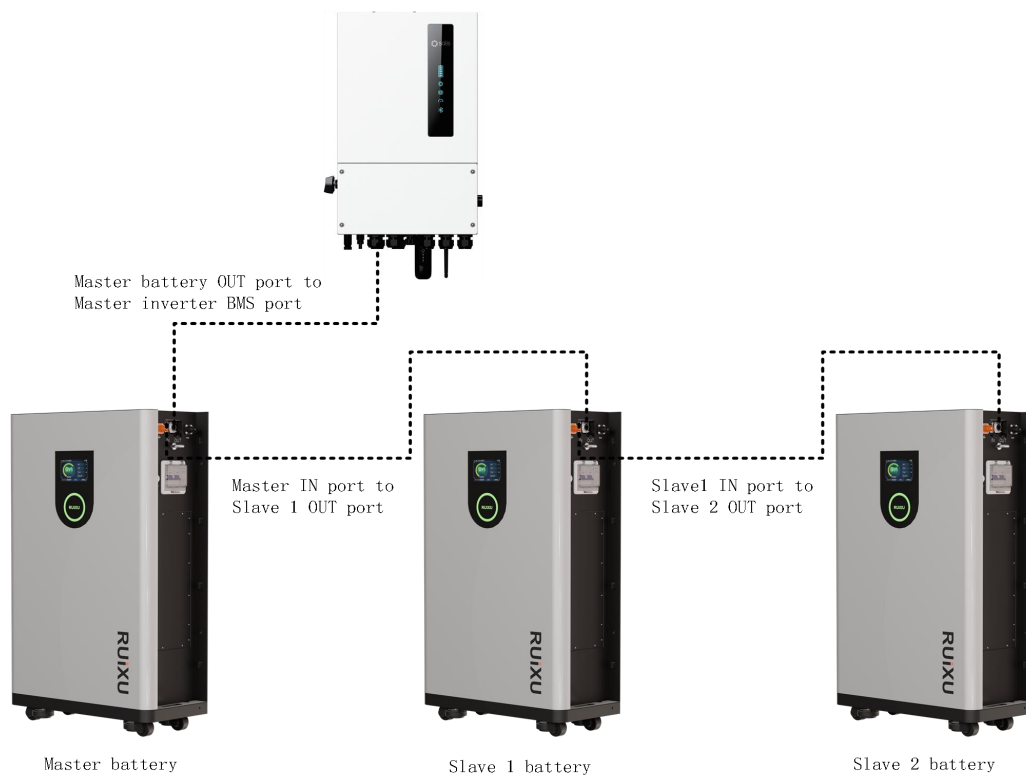
1 x RUIXU Busbar RX5600,Negative

DC connection:

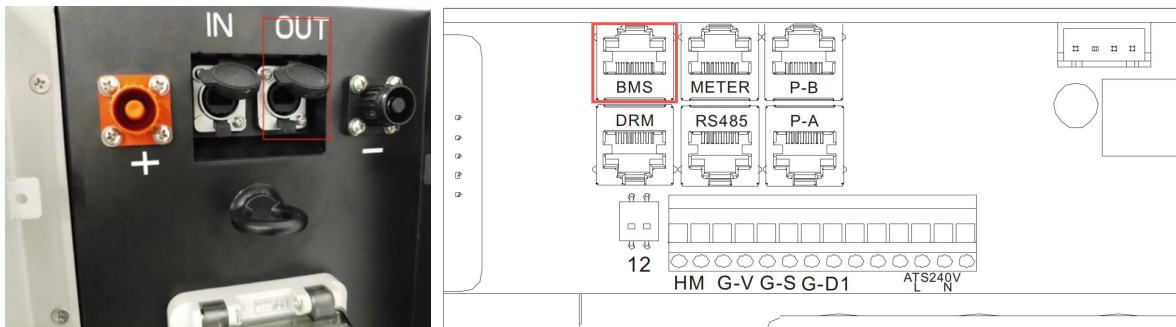


Communication connection and setup:

Connect the battery using the standard network cable provided by Ruixu as shown in the following diagram.



Use the standard network cable provided by Ruixu to connect the master battery “OUT” port of the battery to the “BMS” port on the inverter.



Battery Setting:

Please choose the relevant inverter brands from the master battery display

Setting-->inverter settings-->select “Solis” or “PYLON” or “RUIXU”

SolisCloud APP Setting:

Select “Lithium battery LV” under “Battery module”



3. Dual inverters + Multiple batteries installation

Purchase list:

n x RUIXU Lithi2-16

2 x Solis S5-EH1P(3-6)K-L/S6-EH1P(3-6)K-L-AU /S6-EH1P(3-6)K-L-PLUS

2 x ZJ BENY Battery DC Breaker 500V/125A 2 pole (BDW-125)

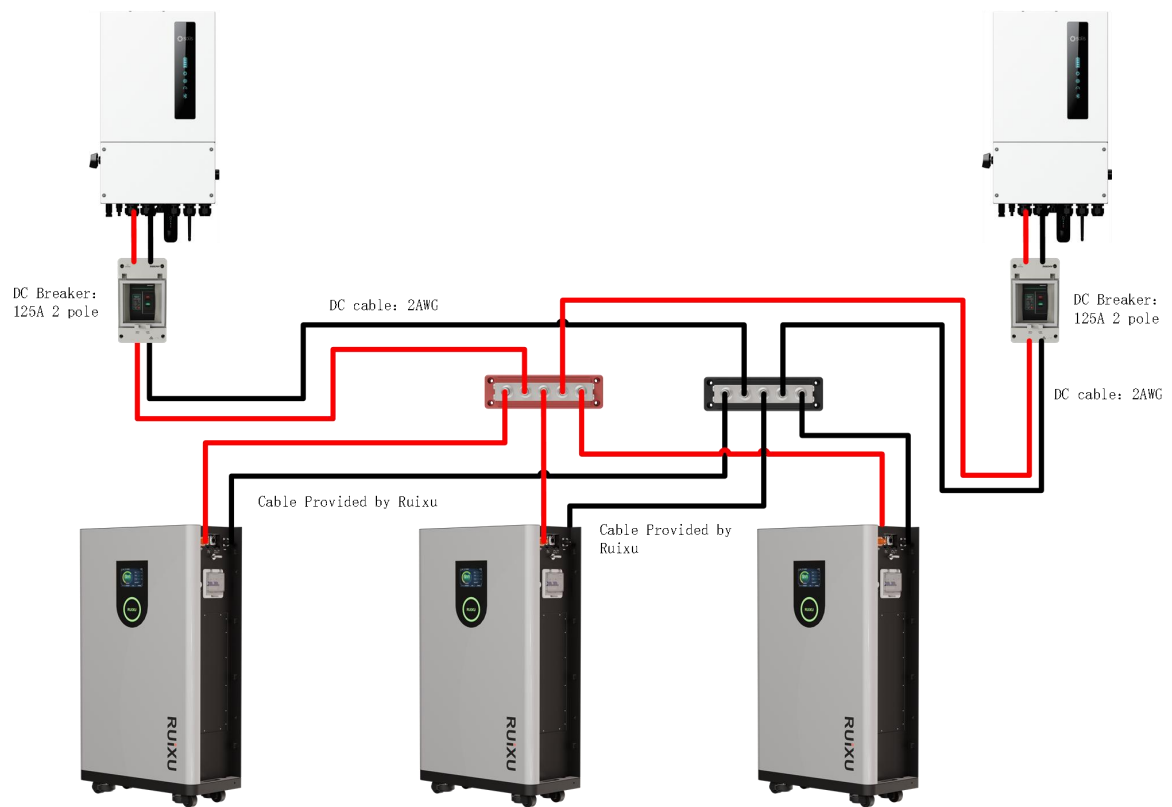
4 x 2AWG positive DC cable

4 x 2AWG negative DC cable

1 x RUIXU Busbar RX5600,Positive

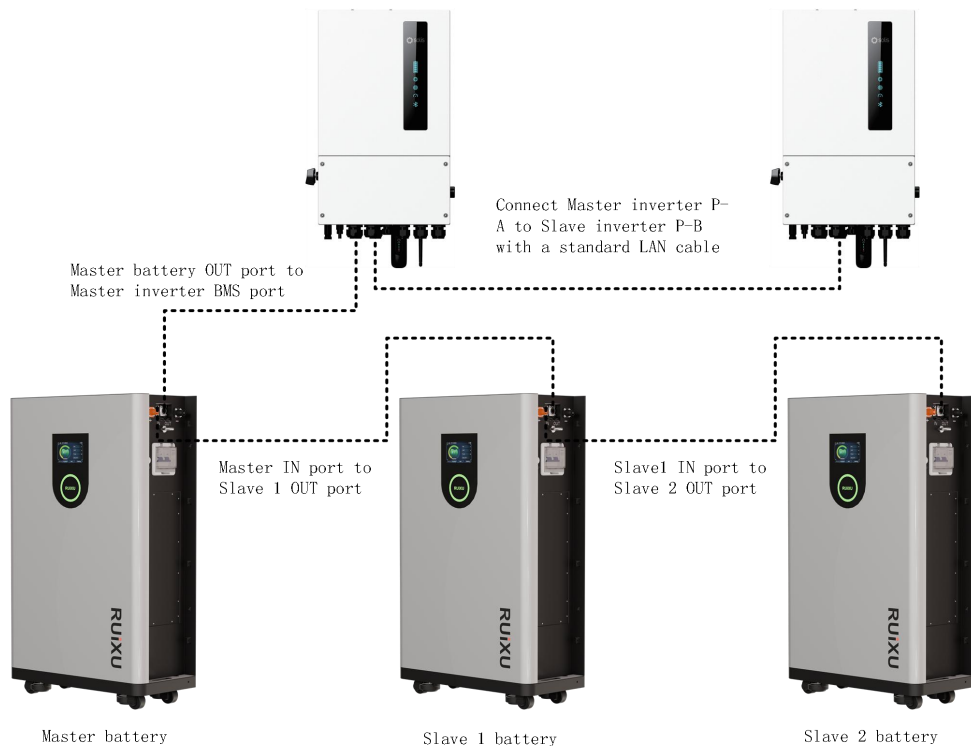
1 x RUIXU Busbar RX5600,Negative

DC connection:

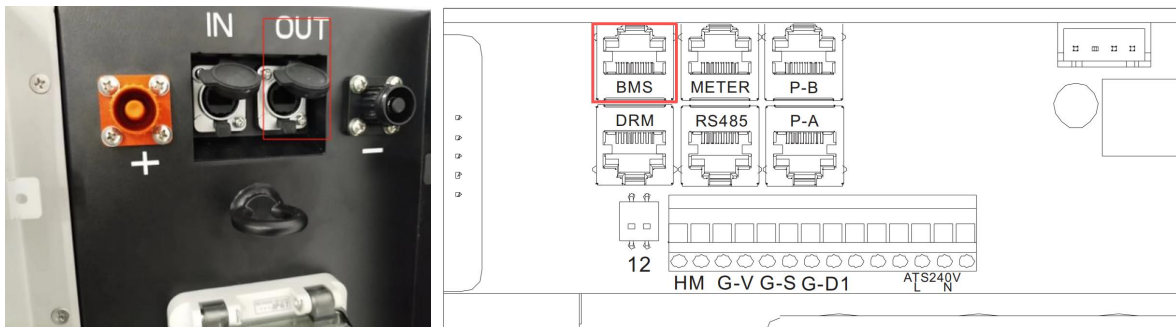


Communication connection and setup:

Connect the battery using the standard network cable provided by Ruixu as shown in the following diagram.



Use the standard network cable provided by Ruixu to connect the master battery “OUT” port of the battery to the “BMS” port on the master inverter.



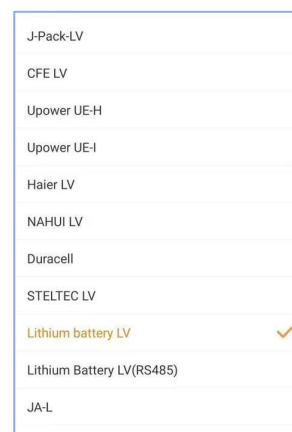
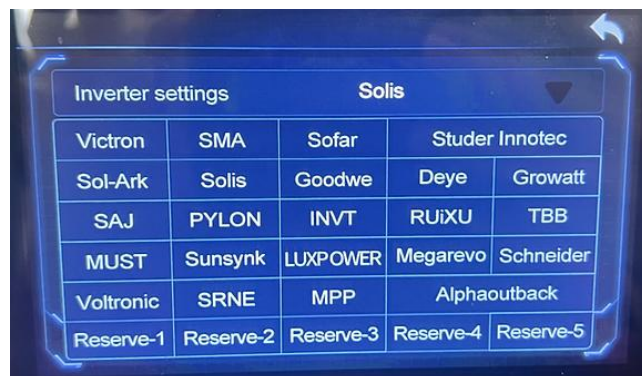
Battery Setting:

Please choose the relevant inverter brands from the master battery display

Setting-->inverter settings-->select “Solis” or “PYLON” or “RUIXU”

SolisCloud APP Setting:

Select “Lithium battery LV” under “Battery module”

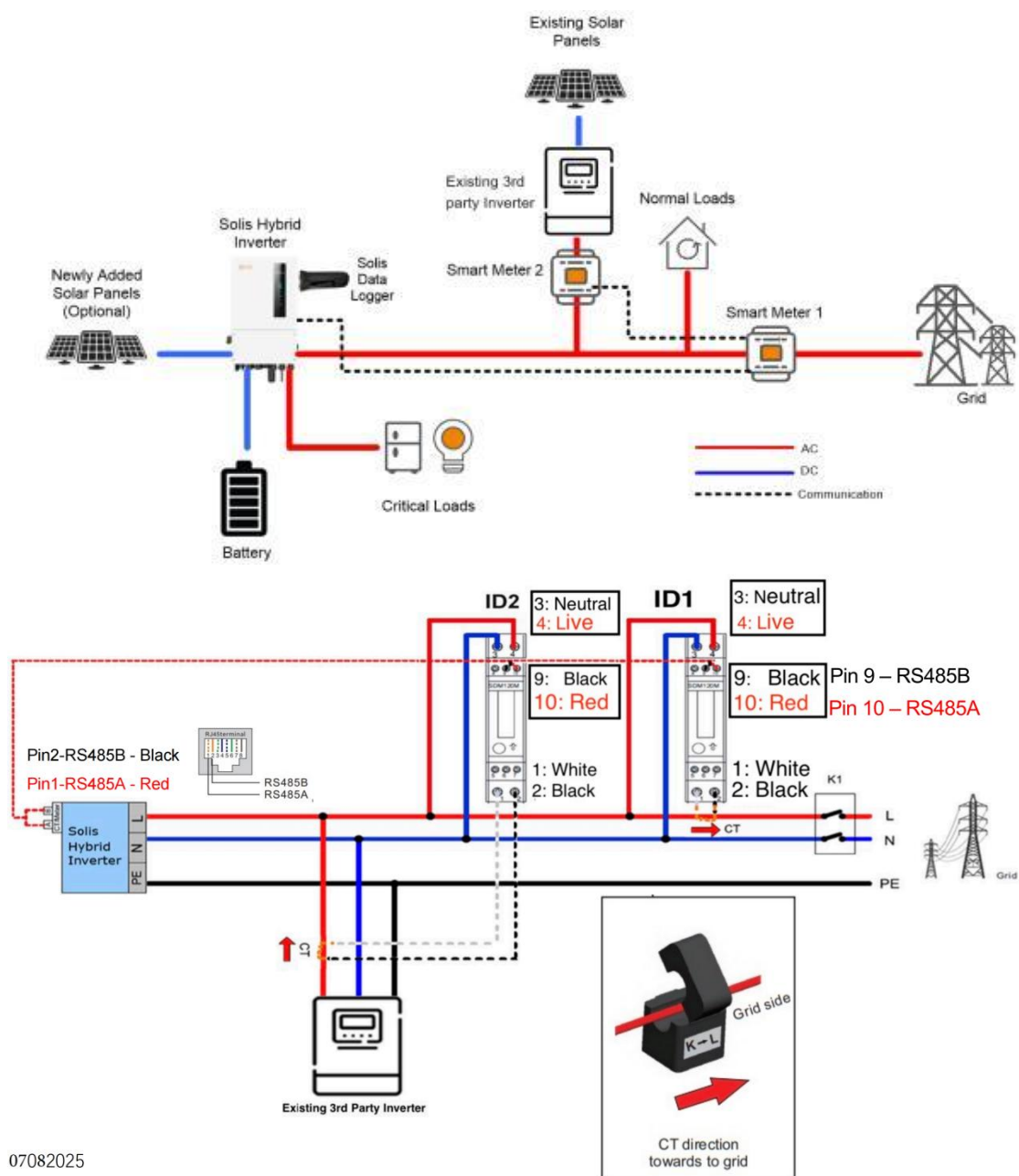


Note:

The connection of other cables and settings for the inverter can be referred to in the inverter manual.

4. AC couple

For customers who have already installed a PV grid-connected power generation system, after adding a Solis hybrid inverter + battery energy storage system, although the two systems can operate independently and achieve AC coupling, it is recommended to connect two smart meters to the Solis hybrid inverter (one on the grid side and one on the output side of the PV inverter) to enable the two systems to collaborate and utilize electrical energy more efficiently.



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Requirements for dual meter installation:

- Supported meter models: SDM120CT (Eastron single phase)
- 2 meters are daisy chain connection. Meter 1 installed at grid connection point to measure import/export power, Meter 2 at PV inverter's AC output to capture the PV production.
- Modbus addresses for both meters need to be different. This value is by default set to 1 so leave meter 1 as it is and set meter 2's address to 2. Single Phase Eastron meter needs to be configured with a software on a laptop. Meter needs to be connected to laptop USB port via a RS485 to USB converter.
- On Solis hybrid inverter, the meter installation setting needs to be selected as "Grid+PV inverter"