Dyness DL5.0C battery and Hoymiles HYS-5.0LV-EUG1 Setup

Check List:

All of DYNESS battery has same DIP settings and cable connections,here are examples of DL5.0C;

Power cables;

Parallel cables;

Communication cable between battery and inverter;

Communication cables between battery and battery;

DL5.0C*4PCS

HYS-5.0LV-EUG1

Note:

Before starting, make sure battery and inverter size matched.

Follow Dyness user manual to check details, it is recommended to use battery in 1: 2 configuration at least.

Applicable Product type:

Dyness Battery Low Voltage Product:

All 48V series: 4850,B3,A48100 etc.

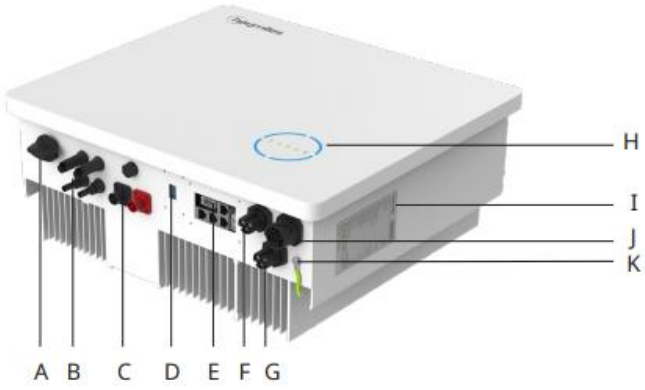
All 51V series: B51100,BX51100,DL3.6,DL5.0,DL5.0C, DL5.0X,PowerDepot H5B,PowerBox Pro etc.

Inverter Type:

HYS-5.0LV~6LV-EUG1、HAS-3.0LV~5LV-EUG1

Step 1:Cable connect in inverter

Refer to user manual to connect energy grid, load, PV etc to HYS-5.0LV-EUG1



* The image shown here is for reference only. The actual product received may differ.

Object	Description
A	DC Switch(1)
B	PV Terminals(2)
C	Battery Terminals
D	Data Transfer Stick (DTS) Port
E	Communication Port
F	GRID Terminal
G	Generator (GEN) Terminal
H	LED Indicators
I	Label
J	Emergency Power Supply (EPS) Terminal
K	PE Terminal

(1) Only for HYS series inverters.

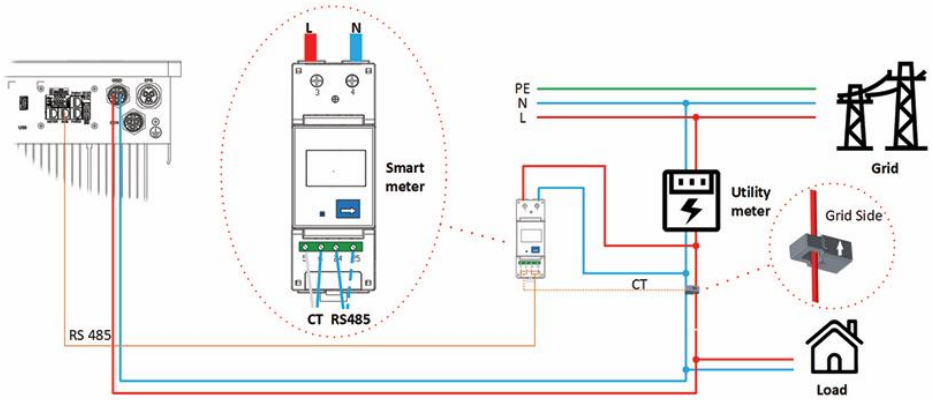
(2) Only for HYS series inverters.

Note:

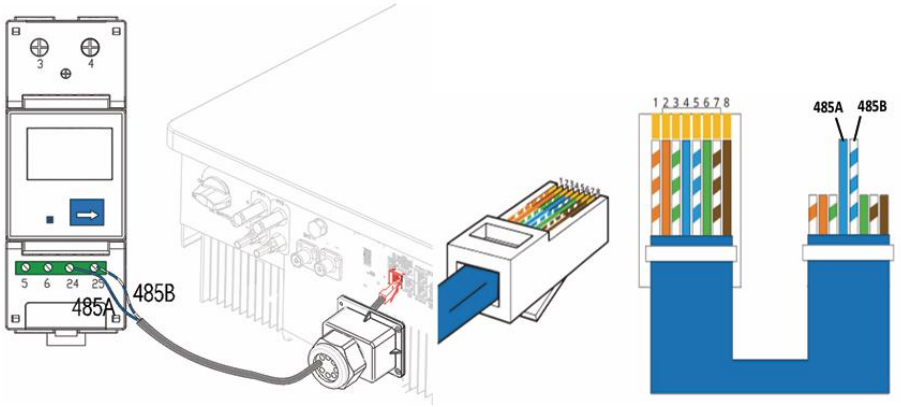
If the CT is installed in the wrong direction, the Hybrid Inverter can't work normally.

Connect grid L/N to meter's terminals 3/4.

Clamp CT to L line and connect wirings to 5/6 respectively.



Connect the communication cable between the inverter and smart meter.



Step 2:Connect the battery cable to the inverter

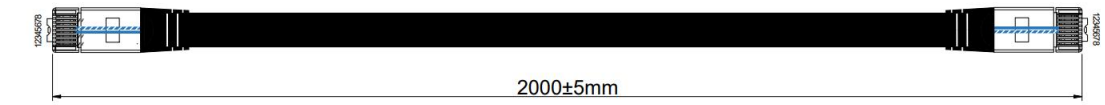
Before connecting the battery, please carefully read the user manual of the battery and perform the installation exactly as the battery manufacturer requests.

2a.Connect the battery DC power cable to the inverter.

To avoid DC Arc, it’s recommends installing DC switch between batteries and Hybrid Inverter.Ensure the correct polarity of batteries before connecting to the inverter.

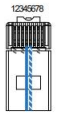
2b.Connect the battery communication cable to the BMS of the inverter.

It’s not normal standard pin-pin cable between battery and inverter ,but battery and battery cables is normal.



BATTERY-Dyness

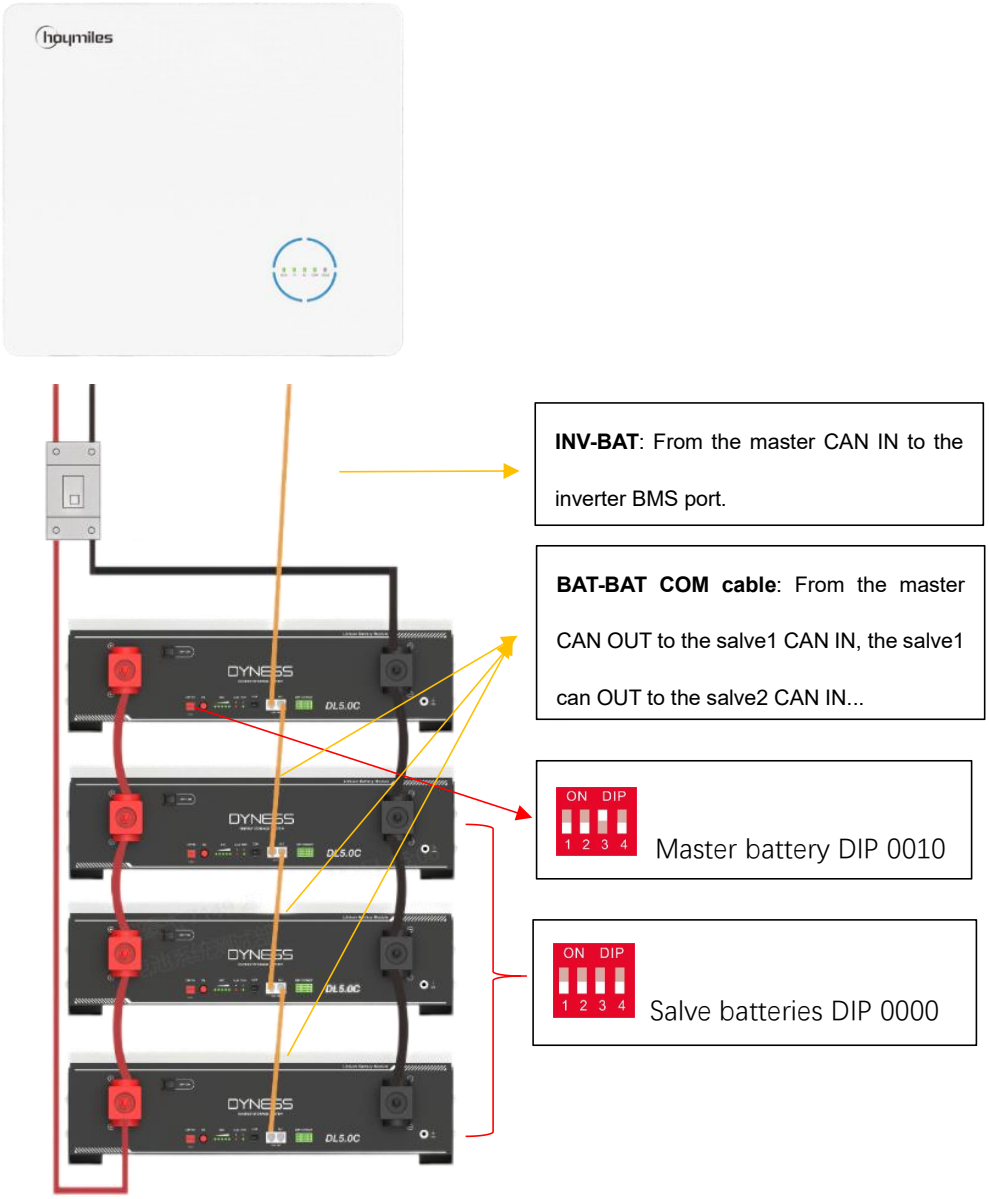
INVERTER



Battery （RJ45 IN）			
PIN	Color	Definition	
1			
2			
3			
4	Blue	CANH	
5	Blue/white	CANL	
6			
7			
8			

Inverter			
PIN	Color	Definition	
1			
2			
3			
4	Blue	CANH	
5	Blue/white	CANL	
6			
7			
8			

The system diagram is as follows:



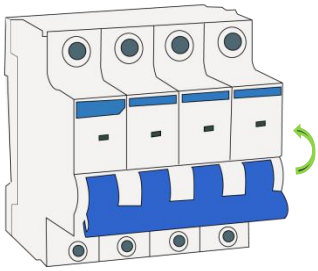
Step 3:Switch on battery and inverter

3a.Turn on battery:

Turn on all the batteries ON/OFF switch,make sure all batteries in the "ON" state.Long press 3s master battery SW to put master battery into the power-on state,you will see master battery's SOC light is constantly on, and the RUN light is flashing.After 3s all slave batteries are awakened by the voltage of the master battery.

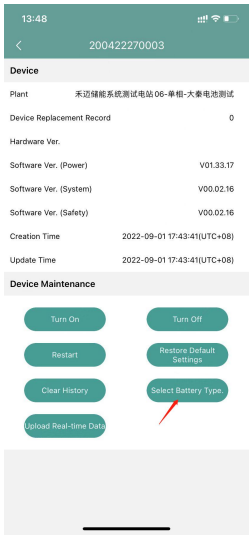
3b.Turn on inverter:

Turn on breaker between battery and inverter.



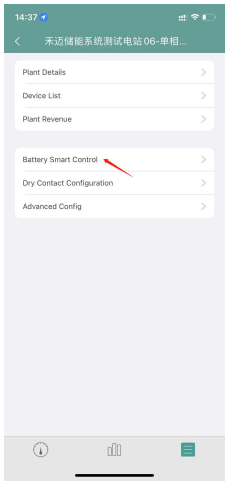
Step 4:Setup inverter

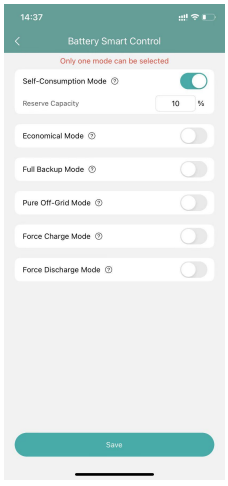
After the inverter is powered on, we can do some setup on the inverter to make the communication success.



Battery type setting:Li-ion Battery—Dyness LV.

If it is used without BMS communication, select Lead acid Battery.





Working mode setting: The inverter has six working modes in total, and the proper mode can be selected according to the needs.

Generally, the Self-Consumption mode is selected.

Step5:You can setup some other setting to make sure battery charge right.

Step6:Make the inverter start charging battery to 100% to calibrate SOC.

Step7:Shut Down

Modules Parallel

1 Remove all the load

2 Turn off DC breaker between the battery and inverter.

3 Disconnect PV/Grid

4 Turn off the inverter power switch,shut down the inverter.

5 Long press the master module SW button to turn off all the batteries,then switch off all the batteries' ON/OFF switch.