



Pytes Low Voltage Battery Series Configuration Guide with Sol-Ark

**Pytes Lithium Battery
with Sol-Ark 5/8/12/15K Hybrid Inverter**

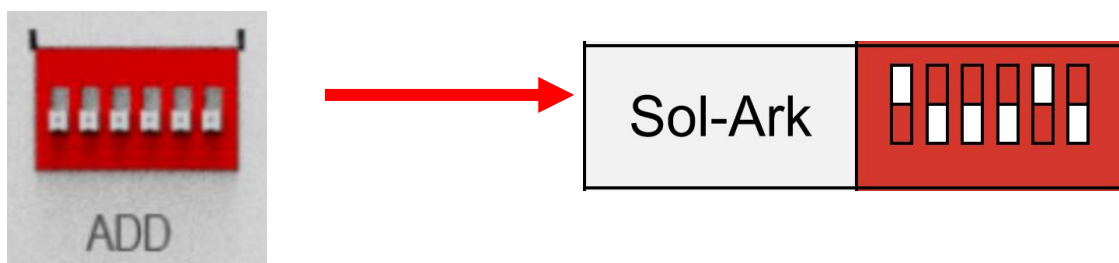


Pytes low voltage battery interface overview

No.	Item Name	Product Picture
1	E-BOX 4850-C	
2	E-BOX 4850G	
3	E-BOX 48100R-C	
4	V5°	
5	V5°α	
6	V5°α Plus	
7	V10	
8	V15	
9	Pi LV1	

Set the Dip Switch

Only need to set the master battery Dip Switch to the corresponding position as shown. The Dip Switch (ADD) location varies for each battery model; please refer to the respective user manual for details.



Select the correct the communication cable between battery and Inverter

Select the correct the communication cable and the correct pinout of communication port on the battery according to the Pin Definition List. If the pin definitions of the battery and inverter align, a standard ethernet cable can be used. Otherwise, the cable needs to be adjusted.

Pin Number	Battery Pin Definition	Inverter Pin Definition
1	RS485B	
2	RS485A	
3	GND	
4	CAN-H	CAN-H
5	CAN-L	CAN-L
6	GND	
7	RS485A	
8	RS485B	

Connect the cables

1. Connect the power cables between inverter and battery or the Busbar. The battery connector is (1) shown in figure 1.1
2. Plug in the battery end into the **CAN port** of the Pytes battery (Check page 2) and plug in the inverter end into Sol-Ark Battery **CANBus** Port (2) as shown .

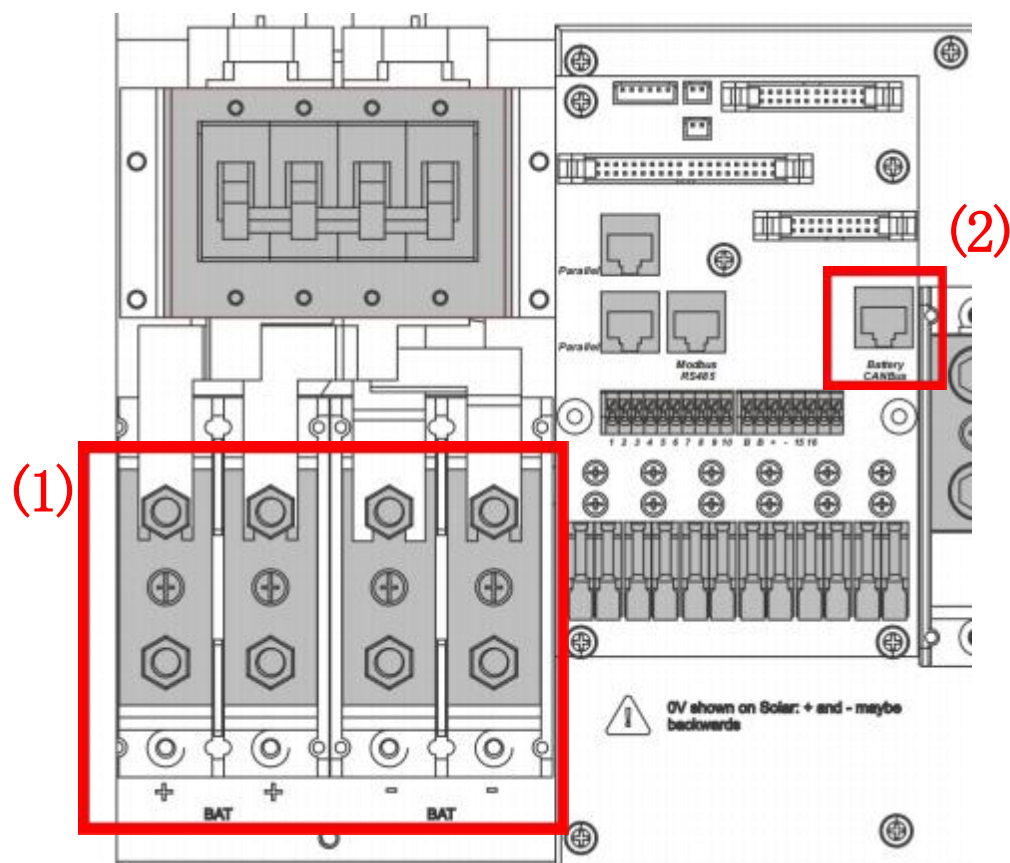


Figure 1.1

Program the inverter

Press the gear icon on the top right of the screen and then press battery set up menu.

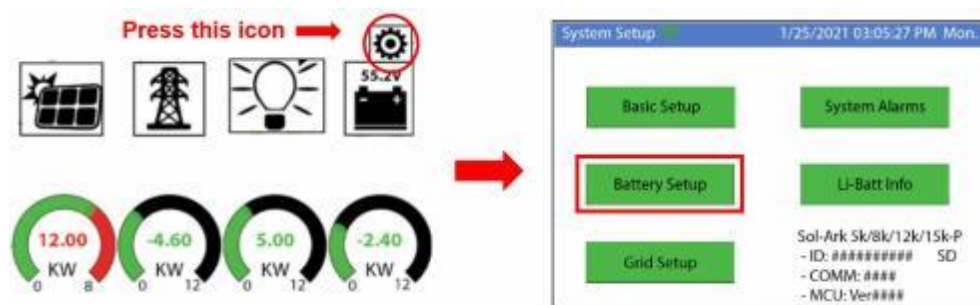
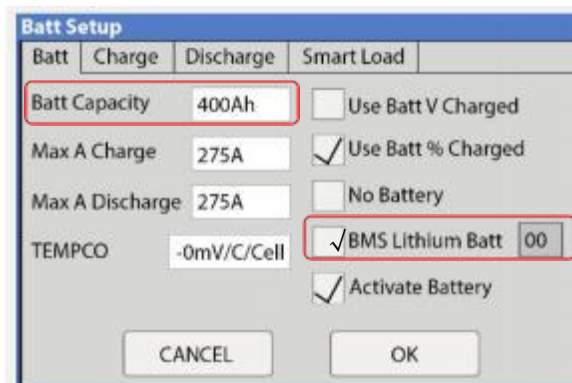


Figure 2.1 Sol-Ark Batt Setup



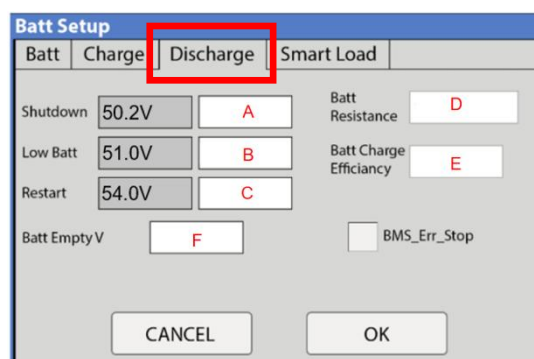
Step1

Change the "Batt Capacity" match the battery type and number.

e.g. Four V5° in parallel → 300Ah, Select "Use Batt% Charged". Select "BMS Lithium Batt" and set its value to "00". Turn on "Activate Battery". Touch "OK".

Step2

Click the Discharge. And set the value at the position as shown below.



Discharge setting

- A. Shutdown: 10%
- B. Low Batt: 20%
- C. Restart: 25%
- D. Batt Resistance: 10mOhms
- E. Batt Charge Efficiency: 98.0%

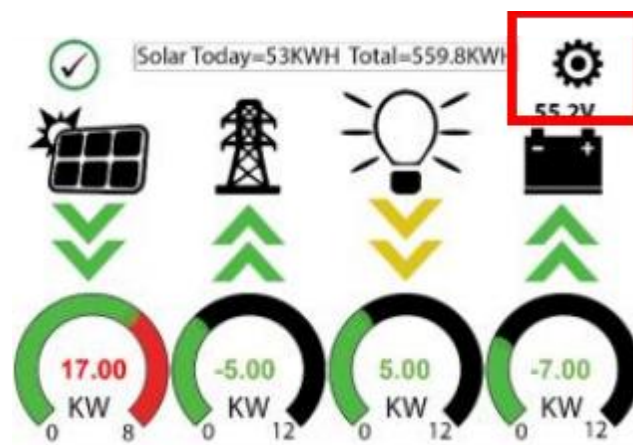
After completing the settings, click "OK" to save.

Batt Setup

Tab	Charge	Discharge	Smart Load
Shutdown	50.2V	10%	Batt Resistance: 10mOhms
Low Batt	51.0V	20%	Batt Charge Efficiency: 98%
Restart	54.0V	25%	
Batt Empty V	49.0V		☐ BMS_Err_Stop

CANCEL OK

Confirm Inverter-Battery Communication



System Setup 10/14/2022 03:05:27 PM Fri.

Basic Setup, Battery Setup, Limiter, Grid Setup, System Alarms, Li-Batt Info

Only w/ BMS Lithium Mode

Sol-Ark 5K/8K/12K/15K-P
- ID: #####
- COMM: ####
- MCU: Ver####

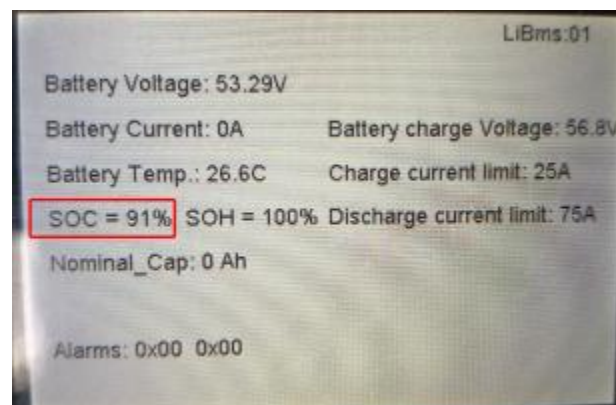


Figure 3.1 communication confirm

As shown in Figure 3.1, if the communication between the battery and the inverter is successful, the specific information of the battery will be displayed on the screen.

Please refer to the [Sol-Ark inverter manual](#) for more setting such as Grid Setup, PV Setting, Time-of-Use, etc.