# Installation and configuration manual With AFORE

**Pytes Lithium Battery** 

**E-BOX series** 

With AFORE Hybrid Inverter

**SUN** series



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# **BOM LIST**

Before installation, you should prepare following items.

Item	Remarks	Quantity	
Power Cable (DC)	<ul> <li>Conductor cross-section: 50 mm<sup>2</sup></li> <li>to 95 mm<sup>2</sup></li> <li>Cable diameters: 14 mm to 25 mm</li> <li>Only copper cables may be used.</li> <li>The DC cables must be sized for</li> <li>the maximum battery voltage and the</li> <li>maximum battery current (see battery</li> <li>manufacturer documentation).</li> </ul>	Depends on the number of batteries and the connection method	
CAN Cable	CAN communication Terminal (RJ45 port) follow CAN protocol, to output batteries information	1	
Twist Pair Cable	For Ethernet Connection between PC and Inverter	1	
PC (Personal Computer)	Provide for oneself	1	
Battery	48100R / 48100C / 4850	Depends on the number of batteries and the connection method	
Inverter	AFORE HF4850S80-H	1	

Defintion of RJ45 Port Pin for BMS is as follow.



CAN port definition

# HOW TO INSATLL



CAUTION: If you want to get more inverter-related settings, please refer to the inverter user manual first.

## **1. Power Cable Connection**

#### Step.1

Open the front housing of the AFORE Sun Series.

#### Step.2

Connect the red and black cables to the inverter DC connector as shown in Pic 1.1.1.

Inverter Terminals



3	DC Connectors ( - ) For PV Strings
4	Battery Port

Pic 1.1.1

7

Monitor Module Port

### Step.3

At the other end of the cable, connect to the battery as shown Pic

1.1.2. (Ensure that the battery power switch is off)





## 2. Communication Cable Connection

Connect the end of the cable to the inverter communication port as shown in pic 1.2.1. Make sure use CAN communication port .





Connect the other end of the cable to the battery communication port as shown in pic 1.2.1. (Ensure the correct sequence of wires inside the





Pic 1.2.2

3. Set The DIP Switch

Set the DIP switch as shown in graphic 1



			I. L	
- 1	-	1		

graphic 1

4. Start up the system

Start up the inverters and batteries.

**5.Change the battery setting of the inverter** 

**※CAUTION:**If you want more details about the batteries settings,

please check the operating manual of inverters.



#### Step1.Set the inverter protocol to AFORE

Step1: " →" Entry Menu;
Step2: "▲/▼" Up/Down Chose Running Param, " →" Confirm;
Step3: Password Confirm, ▲/▼ Up/Down Chose "5432", " →"
Confirm;
Step4: "▲/▼" Up/Down Chose Lith (Lithium Battery), " →" Confirm;
Step5: "▲/▼" Up/Down Chose
IvyHv/JBS48/JBSHV/HSD48/TaiSu/HSDH (/Afore)
/PYLON/Ivy48/, " →" Confirm;
Step6: " →" Return.



## Step2. Set Energy Management System

- Step1: "- "Entry Menu;
- Step2: "▲/▼"Up/Down Chose Running Param,"— "Confifirm;
- Step3: Password Confifirm, ▲/▼ Up/Down Chose
- "5432","**—**"Confifirm;
- Step4: "▲/▼"Up/Down Chose EMS Param, " → " Confifirm;
- Step5: "▲/▼"Up/Down Chose EMS Mode, " → " Entry MES Setting;
- Step6: "▲/▼"Up/Down Chose
- cmdChar/ExtEMS/SelfUse/ChgFst/SellFst/
- Maintain (Maintenance), " —" Confifirm;
- Step7: "— "Return.





## 6.Check the battery soc





Pic 3.1.1