



# Installation and configuration manual With AFORE

**Pytes Lithium Battery**

**E-BOX series**

**With AFORE Hybrid Inverter**

**SUN series**



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## BOM LIST

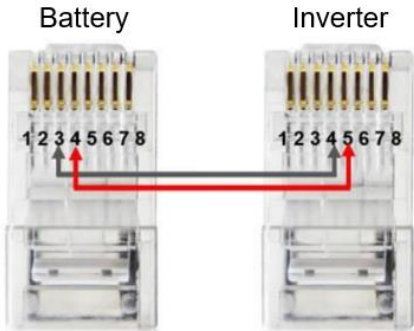
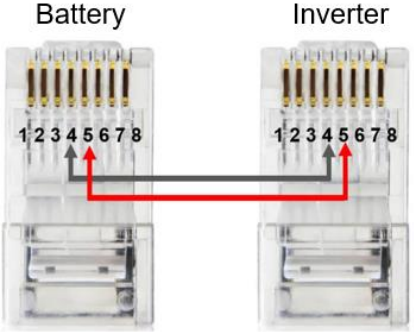
Before installation, you should prepare following items.

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

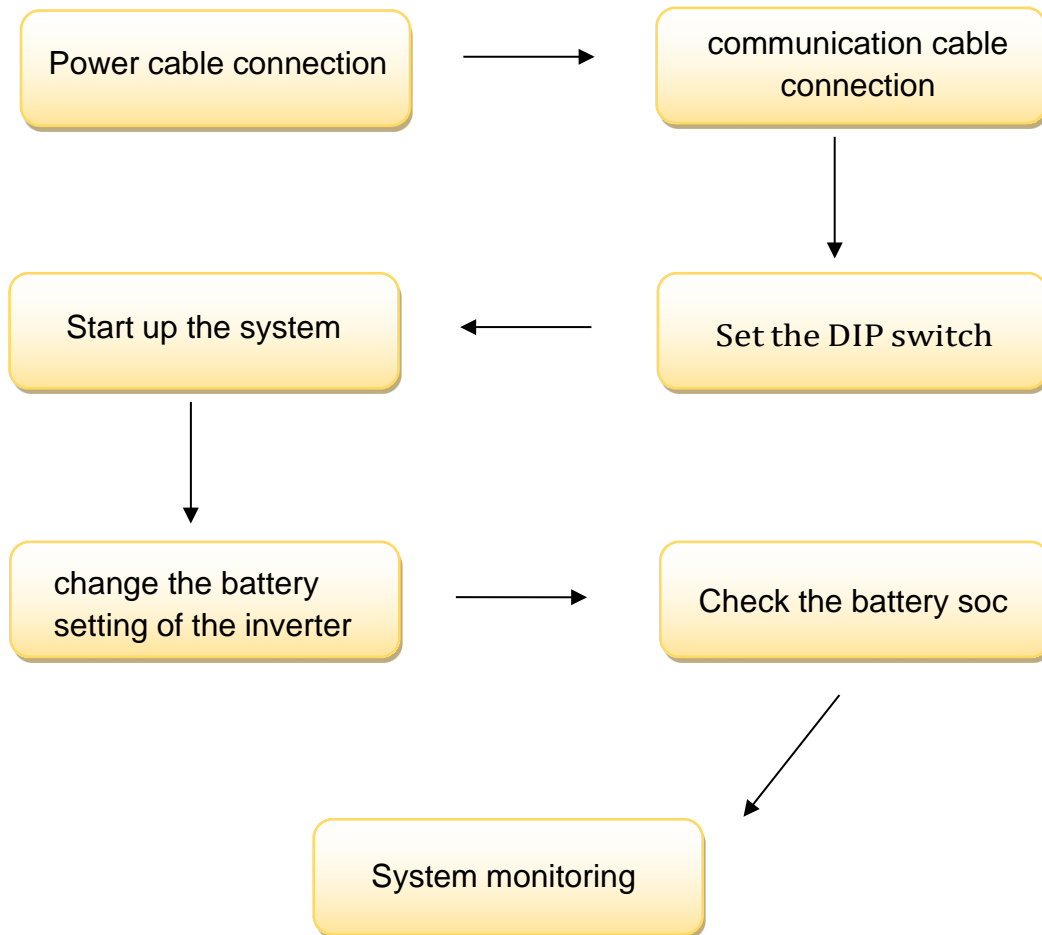
Definition CAN Port Pin for BMS is as follow.

Click [here](#) to tell the version of 48100R you have.

**CAN port definition**

Version of 48100R	Pin number of com. cable
A version	 <p>Battery Inverter</p> <p>1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 8</p>
B and C version	 <p>Battery Inverter</p> <p>1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 8</p>

## 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

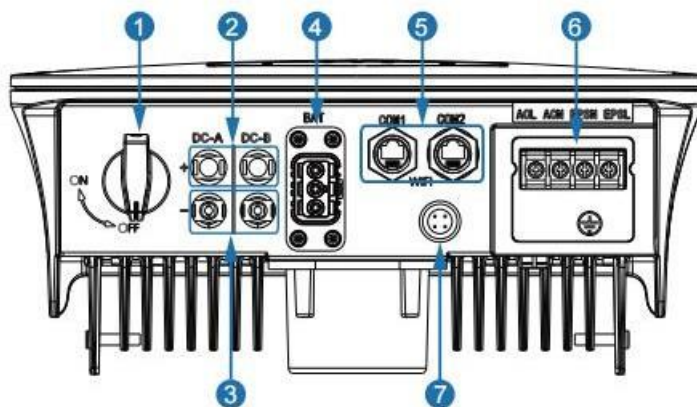
### Step.1

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



No.	Items	No.	Items
1	DC Switch	5	Communication Port
2	DC Connectors ( + ) For PV Strings	6	AC Port & EPS Port
3	DC Connectors ( - ) For PV Strings	7	Monitor Module Port
4	Battery Port		

Pic 1.1.1

### 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)

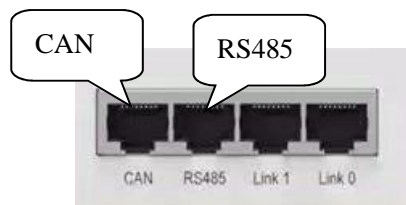


Pic 1.1.2

## 2. Communication Cable Connection

Connect the end of the cable to the inverter communication port  
Make sure use CAN communication port .



Connect the other end of the cable to the battery CAN communication  
(Ensure the correct sequence of wires inside the communication cable)



Pic 1.2.2

## 3. Set The DIP Switch

Set the DIP switch as shown in pic 1.2.3.

Version of 48100R	ADD setting
A and B version	 <p>The diagram shows a grey box labeled 'Afore' followed by a red box containing four vertical bars. Each bar has a white segment at the bottom, representing a battery level indicator.</p>
C version	 <p>The diagram shows a grey box labeled 'Afore' followed by a red box containing six vertical bars. Each bar has a white segment at the bottom, representing a battery level indicator.</p>

Pic 1.2.3

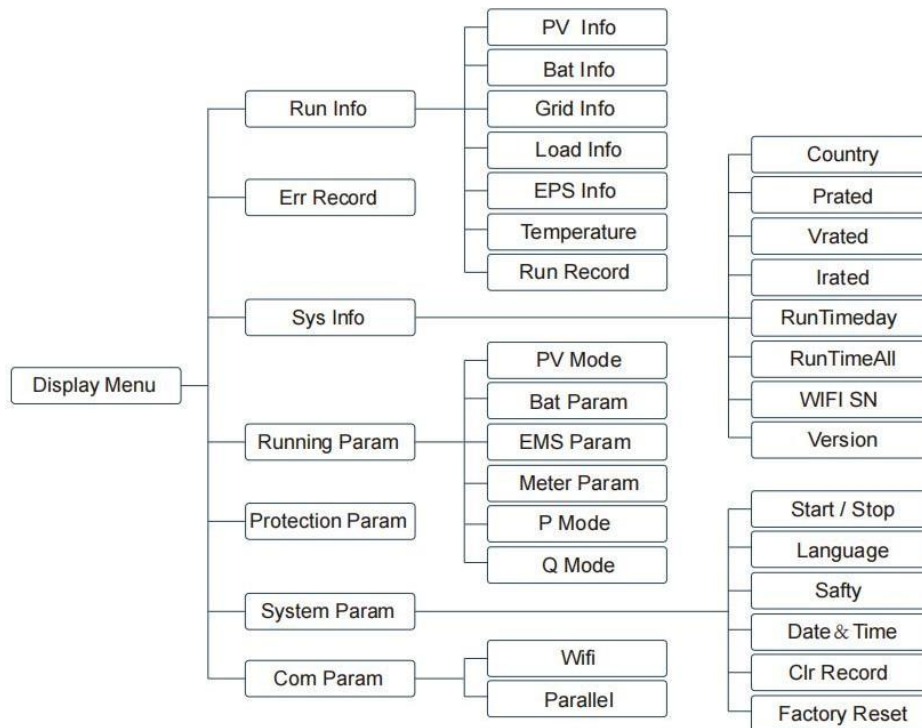
#### 4. Start up the system

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;

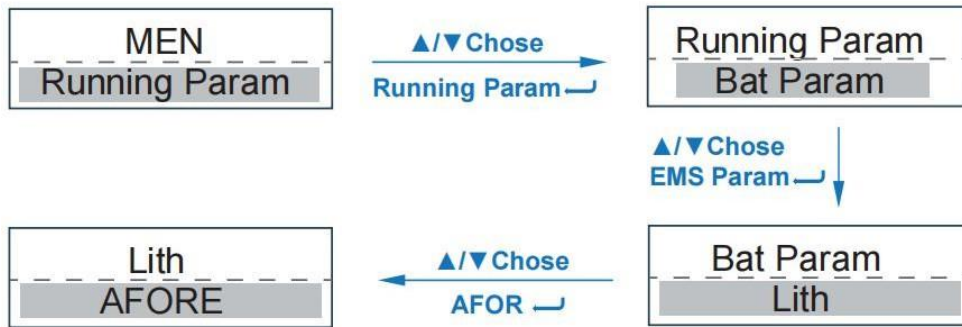
Step4: “ ▲/▼ ” Up/Down Chose Lith (Lithium Battery), “ ← ” Confirm;

Step5: “ ▲/▼ ” Up/Down Chose

IvyHv/JBS48/JBSHV/HSD48/TaiSu/HSDHV/**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;

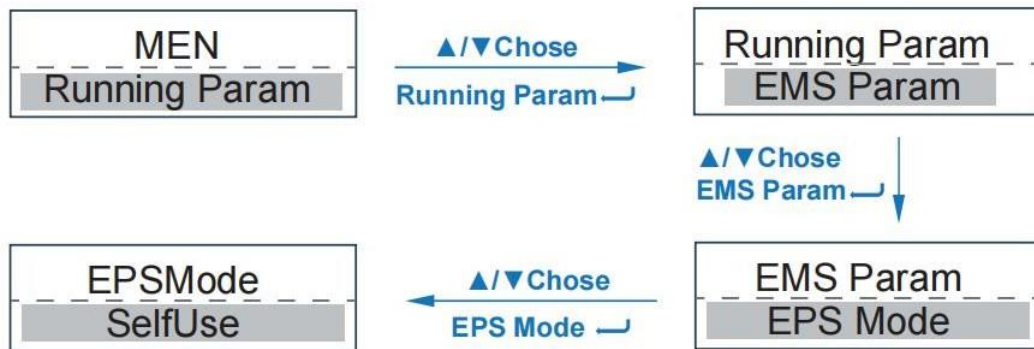
Step5: “▲/▼”Up/Down Chose EMS Mode, “←” Entry MES Setting;

Step6: “▲/▼”Up/Down Chose

cmdChar/ExtEMS/SelfUse/ChgFst/SellFst/

Maintain (Maintenance), “←” Confifirm;

Step7: “←” Return.



**Eps mode should be turned on**


**Step3.**


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 Chg or Dischg Tim, “” Entry MES Setting;

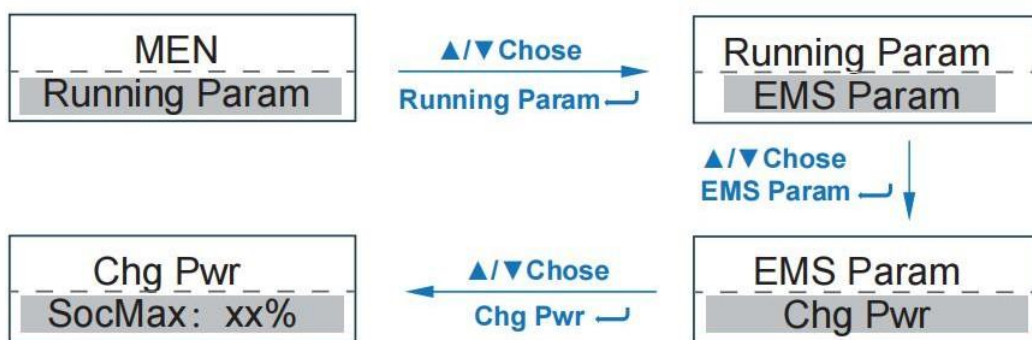
Step6: “▲/▼”Up/Down Chose Max /Mini Pwr /Max /Mini Volt/Max /Mini Curr,

“” Confifirm;

Step7: “ ”Return

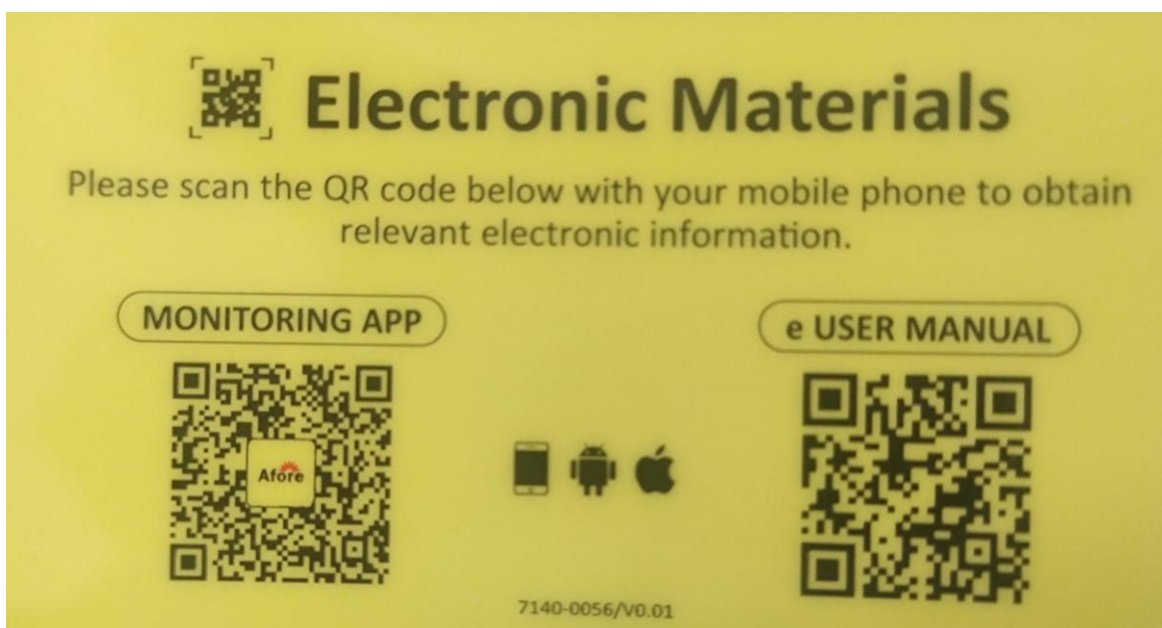
**Set the charge/discharge voltage to 56v.**

**The charge and discharge current is 50A. SOC is 100%**



## 6. Check the battery soc

Step.1: You can check the battery information on the APP



Pic 3.1.1