



Installation and configuration manual With GOODWE

Pytes Lithium Battery

E-BOX series

With GOODWE Energy Storage Inverter

GW-BP/SBP/GW-ES/EM



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BOM LIST

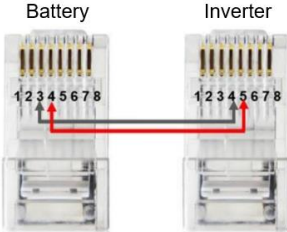
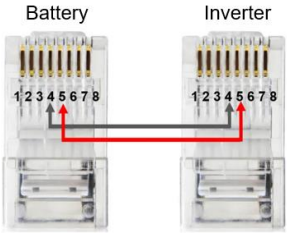
Before installation, you should prepare following items.

Item	Remarks	Quantity
Power Cable (DC)	<input type="checkbox"/> Conductor cross-section: 50 mm ² to 95 mm ² <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
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	Goodwe GW-BP/SBP/GW-ES/EM	1

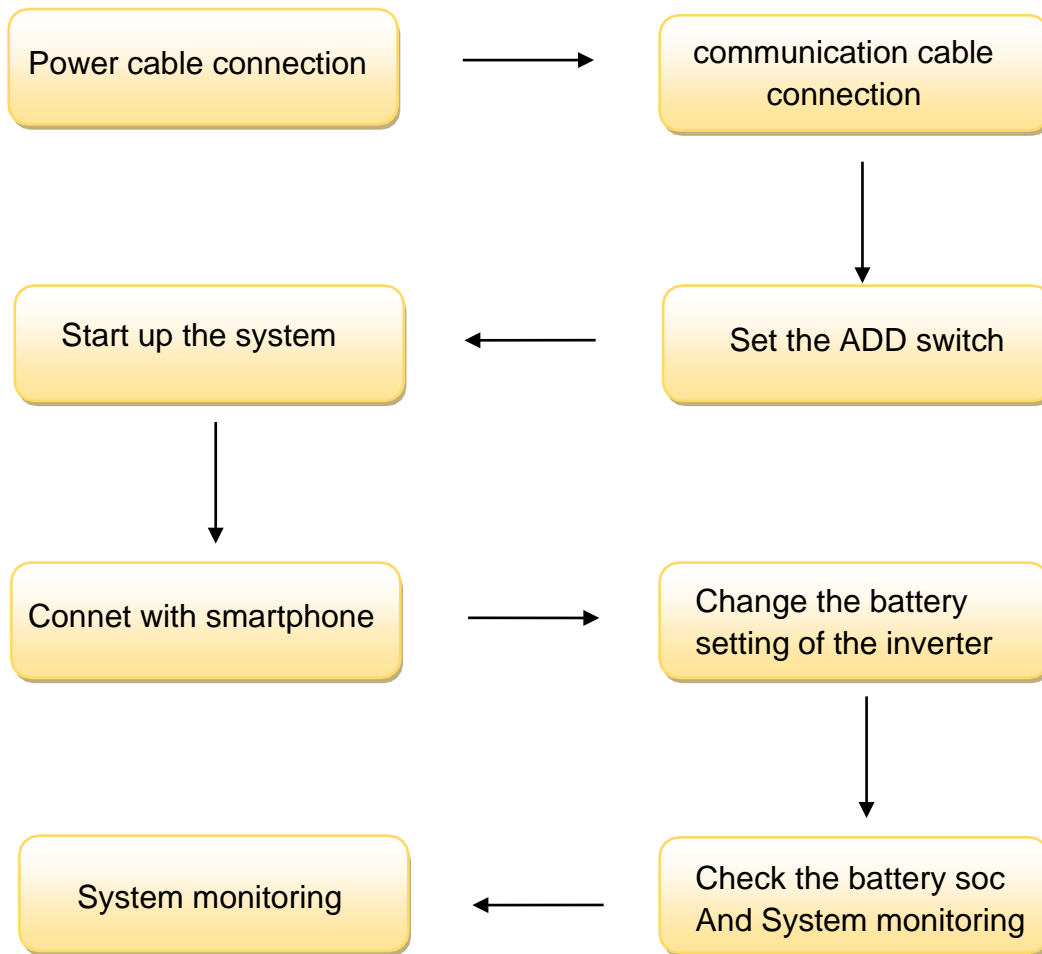
Definition of RJ45 Port Pin for BMS is as follow.

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

CAN port definition

Version of 48100R	Pin number of com. cable
A version	
B and C version	

HOW TO INSATLL



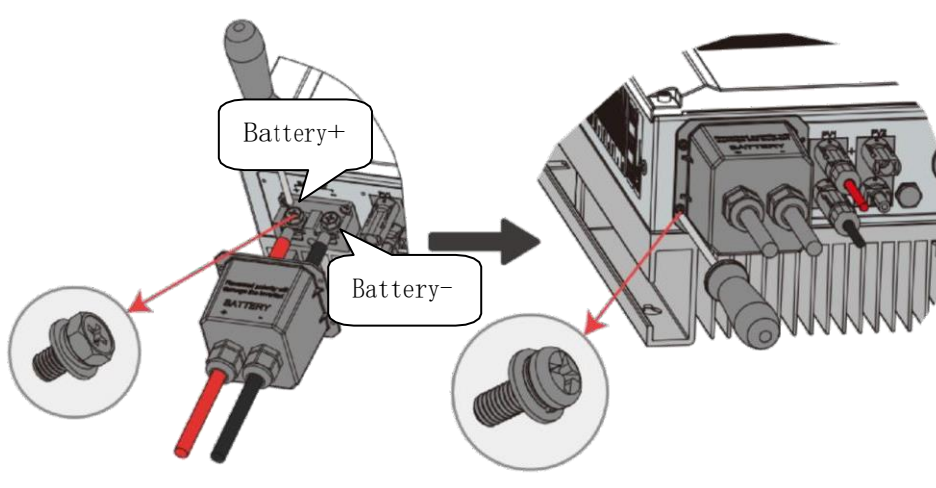
1. Power Cable Connection

Step.1

Open the cap of the Goodwe inverter.

Step.2

Strip cable coat, revealing 10mm length of metal core. Use special crimper to compress battery terminal tightly.



Pic 1.1.1

Step.3

Connect battery terminal onto inverter .

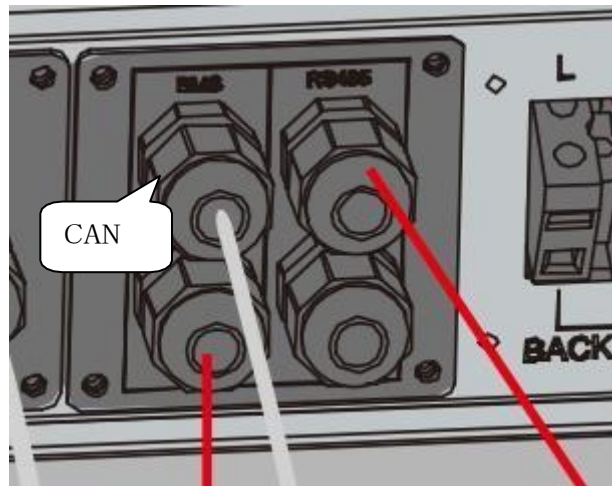


Pic 1.1.2

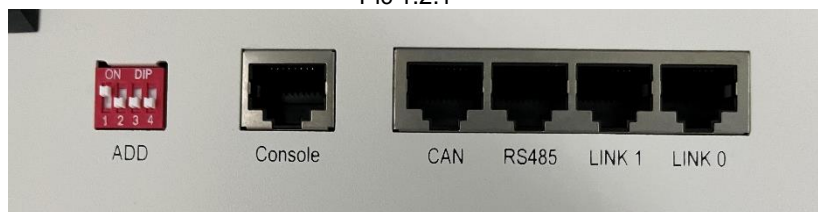
2. Communication Cable Connection

Open the cap and 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 communication cable)

Make sure which communication port to use.





Pic 1.2.1



Pic 1.2.2

3. Set The DIP Switch

Set the ADD switch as shown in graphic 1

Version of 48100R	ADD setting
A and B version	
C version	

Pic 1.2.3

4.Start up the system

Start up the inverters and batteries.

5.Connect to smart phone

Step.1

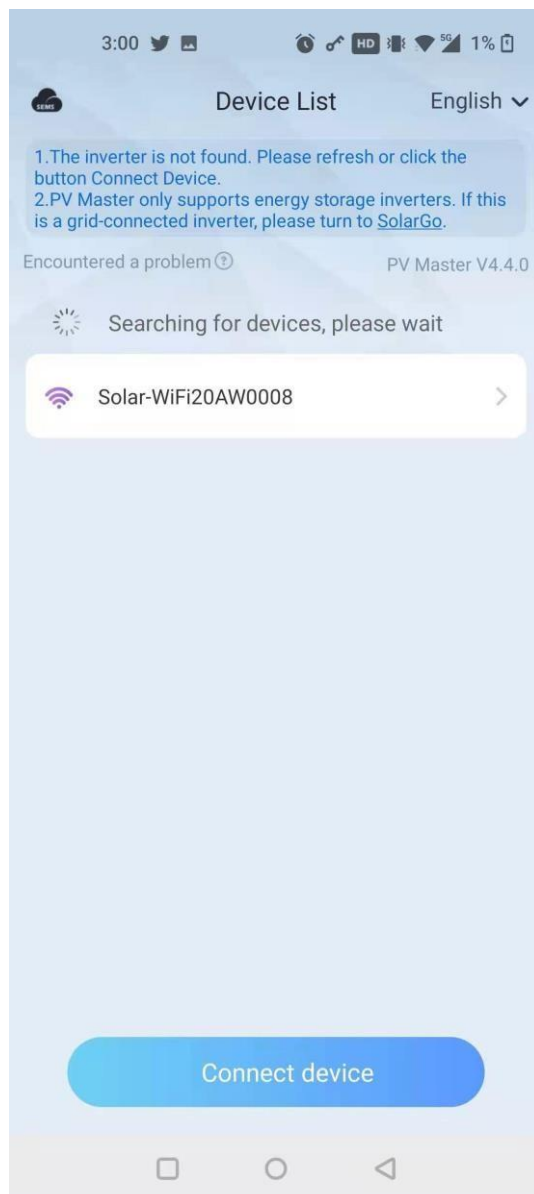
Download the app PV master from the app store.



Pic 2.2.1

Step.9

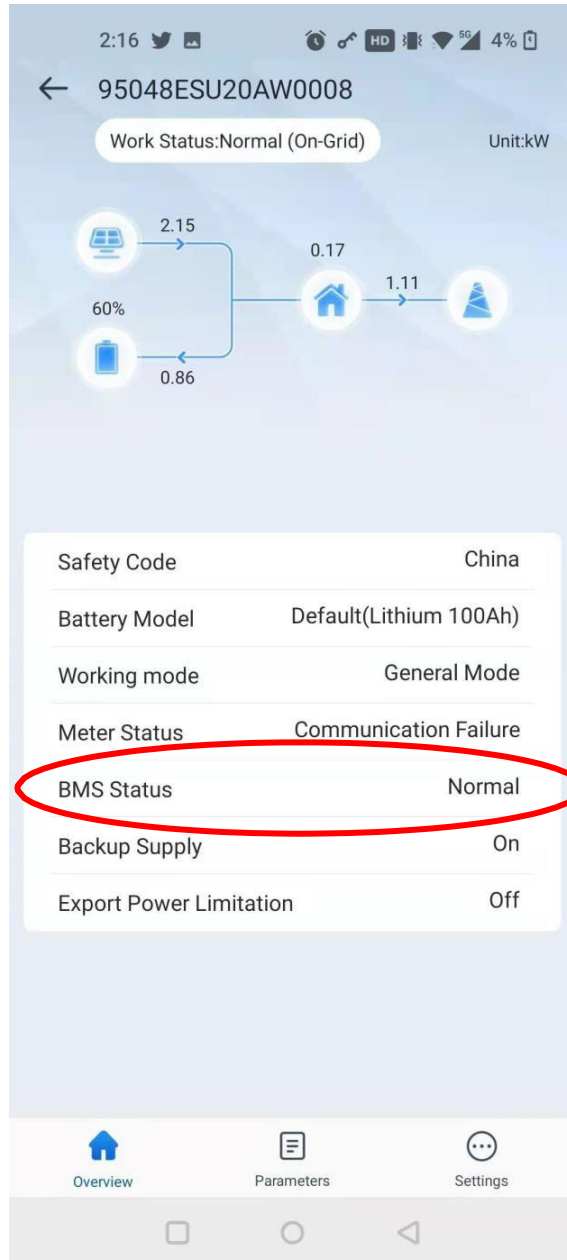
Start the APP then connect to the solar-WIFI ,password is 12345678.



Pic 2.2.2

Step.

The BMS status will be showed on the interface if the connection between battery and inverter is correct.



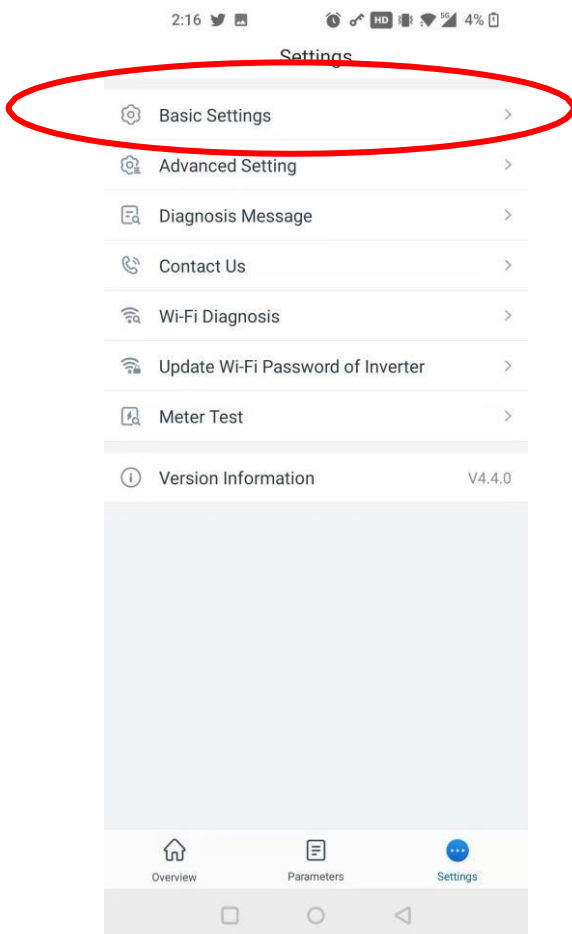
Pic 2.2.3

6. Change the battery setting of the inverter

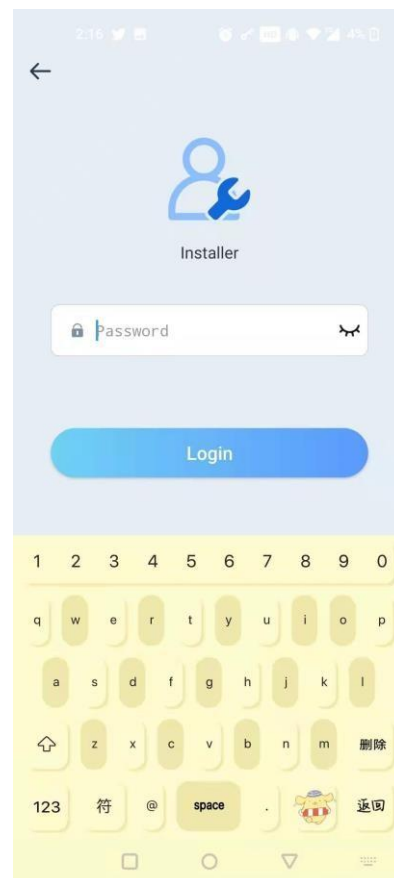
※**CAUTION:** If you want more details about the batteries settings, please check the operating manual of inverters.

Step1.

Choose the Basic settings in settings icon. The Installer login password is: goodwe2010.



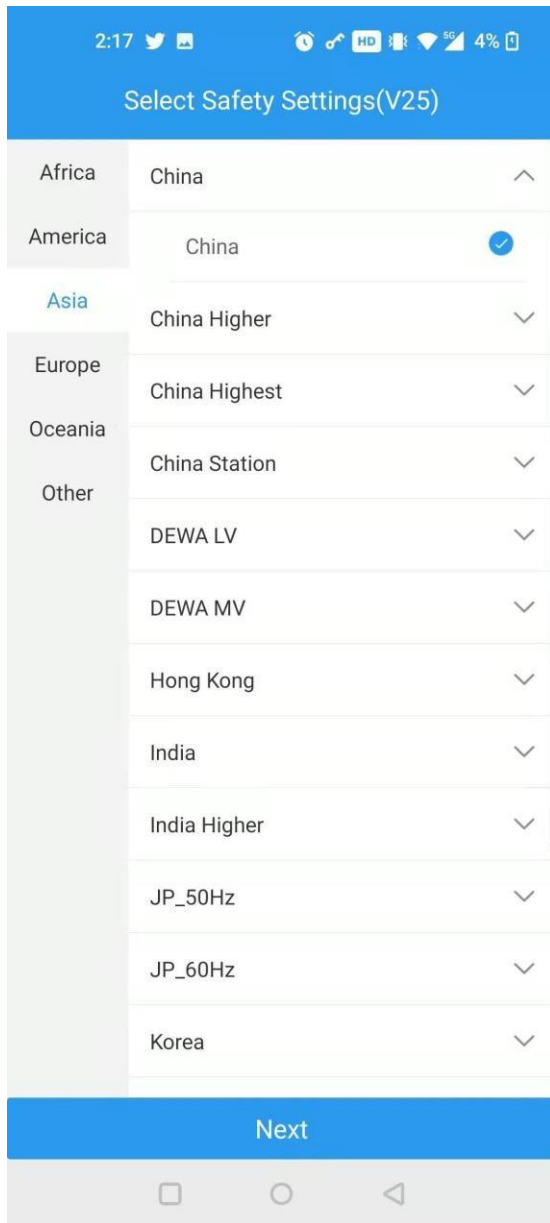
Pic 3.1.1



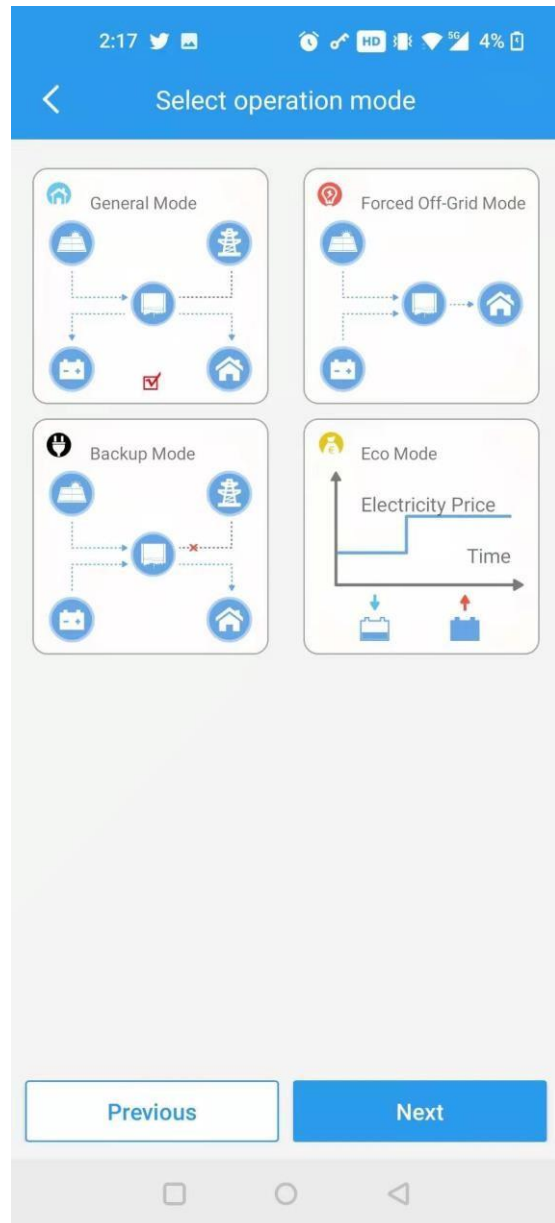
Pic 3.1.2

Step.

Select your safety settings and operation mode.



Pic 3.1.3

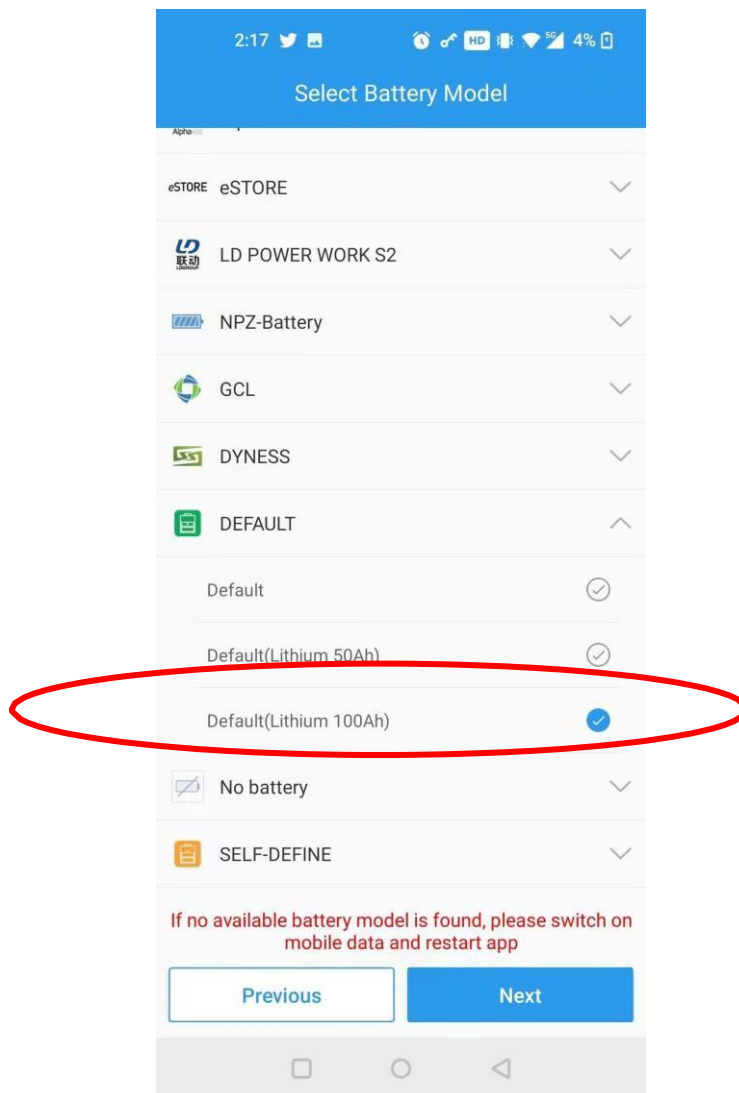


Pic 3.1.4

Step.

Select battery model to default(lithium 100Ah), restart the inverter.

(If your battery model is 48100C,you can choose LBS051200A-A02)



Pic 3.1.5

You can also choose self define to define the settings yourself.

Battery Capacity	<input type="text" value="100"/>	Ah
Set battery capacity value (Ah)		
Charge Voltage	<input type="text" value="57.5"/>	V
For the maximum charge voltage, refer to the user manual datasheet. Enter the appropriate value carefully according to the battery parameters and connection structure.		
Charge Current	<input type="text" value="50"/>	A
For the maximum charge current, refer to the user manual datasheet. Enter the appropriate value carefully according to the battery parameters and connection structure.		
Discharge Current	<input type="text" value="50"/>	A
Set the max discharge current (only On-Grid mode)		
SOC Protection	<input checked="" type="checkbox"/>	
The battery stops discharging when the depth of discharge set below is reached. E.g. if the discharge depth is set to 60%, the battery stops discharging when SOC reaches 40%.		
Depth Of Discharge (On-Grid mode)	<input type="text" value="90"/>	%
DOD means the max percentage of battery power capacity that is allowed to discharge. Only effective when SOC Protection is turned ON		
Depth Of Discharge (Backup Mode)	<input type="text" value="90"/>	%
DOD, the max percentage of battery power capacity allowed to discharge. Only effective when SOC Protection is turned ON.		
Floating Voltage	<input type="text" value="58.0"/>	V
3V lower than charge voltage is recommended.		
Floating Current	<input type="text" value="100.0"/>	A
Set battery floating current		
Floating Time	<input type="text" value="30.0"/>	minutes
Set floating charge time		
<input type="button" value="Set"/>		

Pic 3.1.6

7. Check the battery SOC

Now you can monitor your plant in the PV master interface.



Pic 3.2.1