

Inverter Operation Guide

Afore-HL2012-01-1-6KW



Editing Software: WPS-11.1.0

Shanghai Energy Electronic Science and Technology Ltd.



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T1



Simple home storage scenario



Key elements

- ① Invter : Afore-HL2012-01-1-6KW
- ② Interconnection cable: Customized communication cable
- 3 **Battery**: The Li-ion Battery Pack composed of 16 strings of cells

PCS Control Panel



No.	illustrate	No.	illustrate
1	LCD display	5	Page up
2	Power indicator	6	page down
3	Status LED	7	Return key
4	Fault indicator	8	Confirm key

PCS Interfaces



Connection Between PCS and BMS

	No.	COM1	COM2
	1	NTC+	Meter 485A
	2	NTC-	Meter 485B
	3	Dry Contact	BAT 485A
	4	Dry Contact	BAT CANH
0000000000	5	DRM	BAT CANL
12345678	6	DRM	BAT 485B
	7	485A	CTU
	8	485B	CTN

No.	Function description
1	DCswitch
2	DC input +
3	DC output -
4	Battery pack inlet
5	RS485/CANCommunication interface
6	AC input/EPS interface
7	Monitor the module interface



PIN1	RS485-B
PIN2	RS485-A
PIN3	GND
PIN4	CAN-H
PIN5	CAN-L
PIN6	GND
PIN7	RS485-A
PIN8	RS485-B

BMS Side

12345678

2

CNEnergy

PCS Side

3.1 Matching Setting of Inverter and BMS-1





1.Check system connection conforms2.Turn on the AC power switch

Start/Stop ON Lang.

Inverter LCD display: "Sys param"-->set"Start/Stop" ON



Inverter LCD display: **"Sys param"--> "Safty"--> "China"**. (Select according to regional needs)



Inverter LCD display:

"Run Param" --> "Password" (5432)--> "Bat Param" -->"Lithium" -->select "Sel Lith Brand" --> "HYS"





"Run Param"-->"EMS Param"->"EMS Mode"-->"cmdChar"

 "Run Param" -->"EMS Param" -->"Chg Cmd" --> "Chg/DChg"
Set "PChg" in "Chg Pwr" to be positive for discharge and negative for charge
Find the "Chg Range" and set it for battery charge and discharge

 Enter "Run Param" to find "EMS Param" and set "AC Chg"
It can be charged for 24 hours from 00-00 to 23:59, and three time periods can be set for AC charging

App Connection Settings-1





Plant Name Afore1 (UTC+08:00) Time Zone Beijing,Chongqing,Hong Kong,Urumqi System Info Plant Type **Residential Rooftop** System Type All on Grid Installed Capacity(kWp) 100 Operating Date (i) 2023-04-07 Yield Info CNY S Currency Unit Price(CNY/ kWh) Total Cost(CNY)

(4)

Plant Details

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08:41 -

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Open the software and click on the upper right corner to add a power station Choose according to the actual situation

Waiting for location confirmation

Set the power station name and installed capacity

App Connection Settings-2





(8) 08:45 🕈 111 🗢 🔳 SN: 3505081774 <u>(</u> Please enter Wi-Fi password @ Energy-2.4G-4F Change network Require a password? 5G frequency band is not supported. Please connect to 2.4G frequency band. Reminder 1. Please make sure the signal strength of Wi-Fi is good 2.During the configuration, some Android phones will prompt that the current network is not available. Please ignore the prompt.

Add collector after creation

Scan the SN code of the corresponding collector

Choose according to your needs

Go to Configure

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App Connection Settings-3





Connect to the collector WIFI

Waiting for the configuration to complete

Exit the configuration interface when complete