

40.32KWh+11 kw All In One ESS (220-240V)

Product Plan 40.32KWh+11kw all-in-one machine (single-phase 220-240V)

(PACE 300A Protection Board)

1、 (Product specifications)

2024. 08. 29

1.1 (Battery pack specifications)

No.	Items		Parameter
1	电芯 Cell	(LITHIUM) LFP71173207-280Ah (3.2V)	
	BMS	PACE 300A protection board+3.2 button blue screen	
2	Pack Style	15S3P	
3	Nominal Voltage	48V	
4	Nominal Capacity	840Ah	
5	Min Capacity	840Ah	
6	Rated Power	40.32KWh	
7	Charging Voltage	54.75V	
8	Working Voltage	37.5V~54.75V	
9	Charging Mode	CC-CV	
10	Charging Current	Standard Charge Current	168A
		Max Charge Current	300A
11	Standard discharge Current		168A
	Max discharge Current		300A
12	Internal Resistance		$\leq 100m\Omega$
16	Operating Temperature		Charge 0°C~55°C
			Discharge -20°C~60°C
17	Storage Temperature		1 month -0°C~45°C
			3 months -0°C~35°C
			6 months -0°C~25°C

1.2 Inverter

No.	Items		Parameter
1	Input voltage	Input formation	L+N+PE
		AC input	220/230/240VAC
		Input voltage Range	90-280VAC±3V(Normal Mode)170-280VAC±3V(UPS Mode)
		Frequency	50/60Hz(Adaptive)
		Input Current	<15A(220-240V) Set parameters through the inverter for now
2	Output	Rated power	11000W
		output voltage	220/230/240VAC±5%
		Output Frequency	50/60Hz±0.1%
		output wave	Pure sine wave
		Transfer Time(Adjustable)	计算机设备 10ms,家用电器 20ms Computer equipment 10ms, household appliances 20ms
		Peak power	22000VA
		overload Ability	电池模式 Battery Mode : 21s@105%-150% load 11s@150%-200% load 400ms@>200% load
3	Battery	Rated Voltage	48VDC
		Constant voltage charging voltage (adjustable)	56.4VDC
		Float charging voltage (Adjustable)	54VDC
4	Charger	PV Charging Method	MPPT*2
		Max PV Input	2X5500W
		MPPT Tracking Range	90~500VDC
		Best VMP Working Range	300~400VDC
		MAX PV Input voltage	500VDC
		MAXPV Input current	18A/18A
		MAXPV Charge current	150A
		MAX AC Charge current	150A
		MAX Charge current	150A

1.3 System

No.	Items	Parameter
1	Size	800 W*600 D*750 H (Excluding rollers)
		800 W*600 D*832 H (Including rollers)
2	Weight	≈315KG
3	Charging interface	220-240V15A LP20 3P LP20 aviation waterproof plug 3P 1pcs

4	Discharge interface		Australian standard 50A socket 3pcs
3	display screen	Battery display screen	3.2 inch button blue screen
		Inverter display screen	3-inch LCD display screen

2、Protection functions

The battery is packed with the protection circuit module (PCM), which can ensure the safety of this battery in charging and discharging.

The main functions of the BMS are as follows:

- 1) Over charge protection;
- 2) Over discharge protection;
- 3) Temperature protection;
- 4) Overcurrent protection;

The battery pack adopts PACE 300A software protection board, RS485/RS232/CAN communication function, with Bluetooth WIFI module (also equipped)

INPUT 63A/2P, AC OUTPUT 63A/2P.

The whole machine is equipped with a 3.2-inch button blue screen (displaying battery pack information), a 3-inch LCD color screen (displaying inverter information), AC Input air switch 63A/2P, and AC OUTPUT air switch 63A/2P.

7) Charge Port: 220-240V15A LP-20

Discharge Port: 220-240V15A

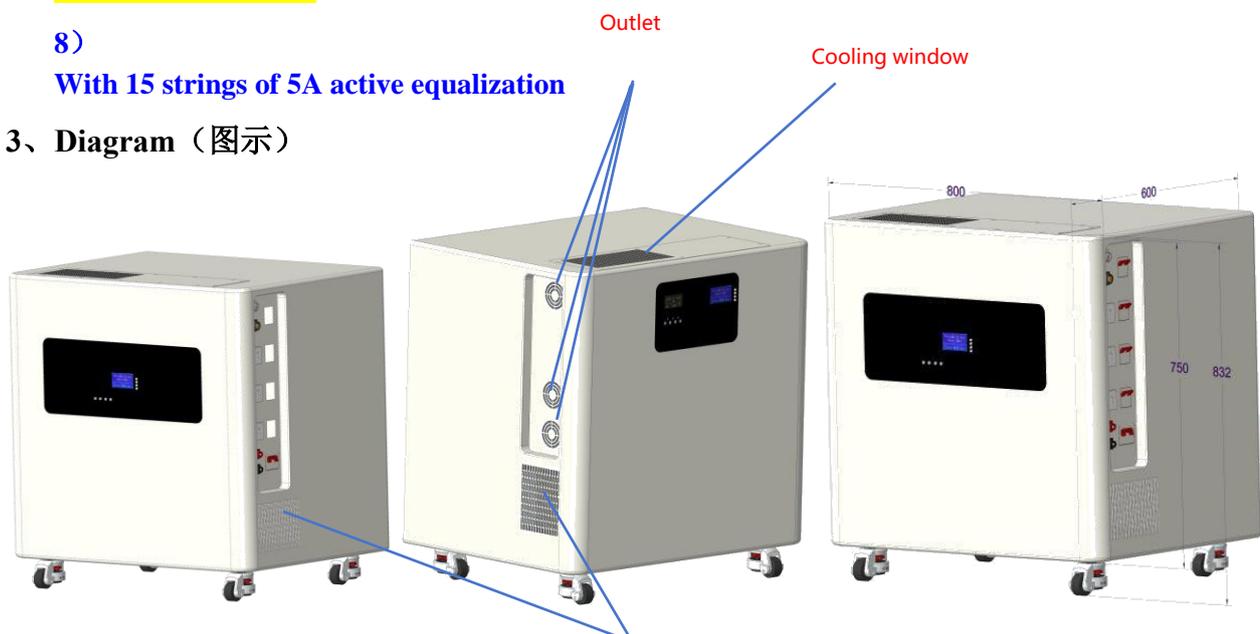
3pcs

Charging interface: 220-240V15A LP-20 waterproof aviation plug 3P, Discharge interface: 220-240VAustralian 50A socket 3pcs

8)

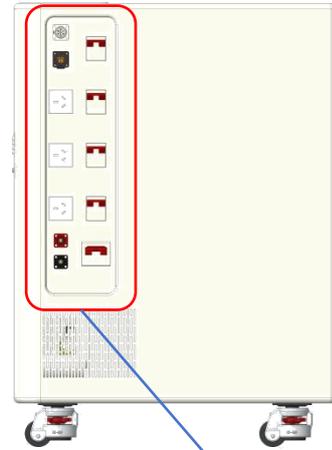
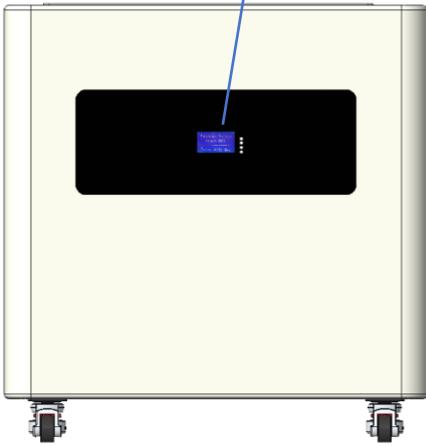
With 15 strings of 5A active equalization

3、Diagram (图示)



Cooling window

Battery display screen



220-240V15A 3P Charging interface, 220-240V15A LP20 aviation

waterproof plug 3P



Inverter display screen socket

15A Australian standard plug, Connect to mains power

LP-20 3P aviation plug, Connect the charging port of the all-in-one machine

Charging line

interface, Australian standard

220-240V15A socket

Air Switch

Function port cover plate, the cover plate needs to be removed when using the function port

Solar input positive pole

Solar input negative electrode

Parallel positive pole

Parallel negative pole

External communication interface

