

Product specifications

Product name: outdoor power supply

Models: 1500w-2560wh

Specification: 220VAC-50HZ

Quantity: _____

Date: _____

1500–25600 outdoor power supply specification

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Change the resume

1、 Introduction

1.1 Power profile

The input working voltage of the AC board is 19.5V-30V DC, and the DC output includes: USB QC3.0, PD output, smoke lighter output; the AC output is 220V / 1500W pure sine wave.

2、 Electrical specifications

2.1 Lithium battery pack

2.1.1 Battery pack specifications

Battery pack specifications	compound mode	Cell type	Cell model	cycle life
25.6V100Ah	8S2P	LFP	50AH-PL13170245	≥2500, 80%DOD
Charging method	Maximum charge current is allowed	Maximum discharge current is allowed	Maximum instantaneous current	Charging voltage
CC-CV	50A	Continue 150A	300A	29.2V

2.1.2 Charging method

Municipal electric charger * 2, national standard plug, output three-core aviation head, current 10A

2.2 AC output

2.2.1Output voltage range

Table 2: AC output voltage range

Output	minimum value	maximal value	unit
AC output	210	230	V~

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2.2.2 AC output frequency range

Table 3: AC output frequency range

220V output	47Hz	53Hz
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2.2.3 Output power

Table 4: AC, output power

Continue work	Rate power	Peak power
	1500W	3000W

2.3

DC output

2.3.1 Output voltage range

Table 5: DC output voltage range

output port	Output specifications	deviation
USB QC3.0	MAX 22.5W	±3%
USB PD	MAX 45W	±3%
Cigar lighter	MAX 12V/10A	±3%

2.4 Protection features

2.4.1 AC output short circuit

Turn off output voltage and eliminate short circuit

2.4.2 AC Output overflow

Load of 105-115% was continued for 180 seconds. 115-150% Last for 10s. Protection mode: the output is turned off after the buzzer gives continuous alarm, and the output is restored after load reduction.

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2.4.3 High and low voltage protection

Below the rated input DC voltage, the inverter stops the output. Return to the output when the voltage is normal

2.4.4 Temperature protection

The inverter temperature is higher than the protection temperature, stop the output, close the load, and can restore the output after the temperature is normal

2.4.5 Low voltage alarm protection

When the battery pack voltage is at $20V \pm 1V$, the buzzer continuously alarms and returns to normal after the voltage is restored.

3、Battery protection circuit parameters

4、

test item		detail	minimum	Typical values	maximum	Unit	Remark
Parameter configuration	Over charge	Single-section overcharge detection voltage	3.65	3.70	3.75	V	
		Single section overcharge release voltage	3.55	3.60	3.65	V	
		Overcharge delay time	500	1000	1500	ms	
	Over fall	Single-section over discharge detection voltage	2.5	2.65	2.8	V	
		Single section over discharge release voltage	2.8	2.85	2.9	V	
		Over-release delay time	50	100	500	ms	
	Over current	Discharge over current protection	-	150		A	
		Discharge over current protection delay time	-	100	200	ms	
	short circuit	short-circuit protection	√				
		Short circuit recovery	Disconnect the load or connect the				

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			external charger				
		Short-circuit protection delay time	-	200	300	us	

4、Schematic diagram of appearance interface



Size: 560×350×230 (±2mm) , Net weight: 约27kg

5、Environmental requirements

5.1 temperature

Operating ambient temperature: 0℃~45℃

Storage environment temperature: -20℃~ +60℃

5.2 humidity

Working time: 25%~80% relative humidity (non-condensing)

Storage: 10%~90% relative humidity (non-condensation)