

# **SOLAR CITY**

## **Let There Be Light**

### 1. introductory

This document mainly describes the detailed technical specifications of AO-5000W Inverse Control All-in-One, clarifying various interface definitions and functions. It is applicable to the design verification, production management, quality inspection, procurement, marketing and promotion of this product.

#### Purpose of preparation

This document provides various technical specifications of the product. It serves as a guideline and standard for the design, manufacture and inspection of the product. Applicable only to portable energy storage power supplies manufactured by KOYOSONIC, including lithium-ion battery cells and protection components.

#### Product Description

This product is a multi-function all-in-one machine, the product is built-in high-efficiency power lithium-ion battery, safe lithium battery management system (BMS), high-efficiency energy conversion circuit, wrapped in a high-strength aluminum alloy body shell, the product through the R & D team for a long time of repeated testing and verification, the top of the design coupled with mature production control, the product is safe and reliable, the product has a lightweight, small size, power                   The product is characterized by light weight, small size, high power, etc., providing customers with convenient energy storage.

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### 2. Product electrical performance index

serial number	sports event	Specification	get ready classifier for sums of money
2.1.1	Cell Type	lithium iron phosphate	
2.1.2	Battery pack rated power	15360Wh	
2.1.3	Charge cut-off voltage for single section	3.65V	Battery pack 58.4V
2.1.4	Single section discharge cutoff voltage	2.6V	Battery Pack 41.6V
2.1.5	Maximum continuous discharge current per section	140A	Battery pack 140A
2.1.6	Standard charging current for single section	70A	Battery pack 70A
2.1.7	waveform	pure sine wave	
2.1.8	waveform distortion (THD)	≤5%	
2.1.9	frequency	50Hz (50/60Hz adjustable)	
2.1.10	frequency range	±0.5	
2.1.11	Continuous Output Power	5000W (resistive load)	
2.1.12	peak power	5100W	

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2.1.13	AC Universal Socket	3	
2.1.14	USB	4 pcs / 5V2A	
2.1.15	DC Socket	1x/12V Output	

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2.1.16	Type-c	2 / 65w max each	Supports charging protocols: PD2.0/PD3.0 (PPS) Output Co. BC1.2/Apple 2.4 protocol, Huawei Fast Charging Protocol FCP, Samsung Fast Charging Protocol AFC, MTK PE+1.1 and MTK PE+2.0,VOOC2.0;VOOC4.0 Xiaomi Turbo 27W Fast Charging
2.1.17	touch panel	1 Display DC Voltage AC Voltage Output Frequency Battery level	
2.1.18	Utility input interface	1 pintle socket 15A	Up to 2.5KW Charging
2.1.19	PV panel input voltage	<100V	
2.1.20	MPPT Power	1300W	
2.1.21	operating temperature	-20°C - 50°C	
2.1.22	Set Size	595*385*810mm (L*W*H)	
2.1.23	weights	Approx. 130KG	

### 3. Product Specification Description

#### 3.1 schema

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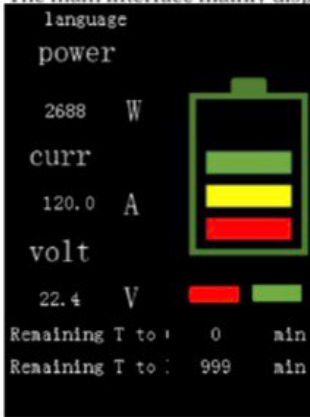
## Let There Be Light

### 3.2 interface definition

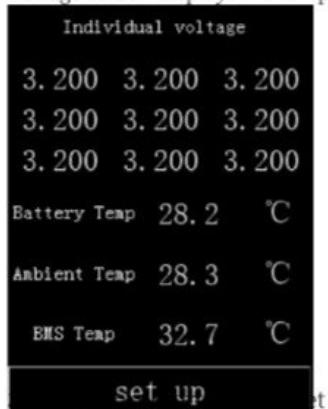
## await a decision

### 3.3 Touch screen status (can support Chinese and English switching)

The main interface mainly displays the parameters, voltage, current, SOC, charging and discharging



Voltage screen displays the temperature used for each voltage string



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overpressure	3650	write in
Charging on	3550	write in
undervoltage	2600	write in
Discharge on	2800	write in
C overcurrent	200	write in
D overcurrent	260	write in
high temperature	80	write in
temp recovery	70	write in
next page		exit
C correcting	0.00	write in
D correcting	0.00	write in
capacity	0.0	write in
remaining cap	0.0	write in
Delayed Sleep	0	write in
current 0		
mos OFF		
mos ON		
exit		

### 3.1 arts and crafts

- (1) Housing Material: Sheet metal
- (2) The surface of the casing should be clean, without obvious deformation and without mechanical damage.
- (3) Surface technology: sandblasted anodized
- (4) The interface contacts are free of rust and corrosion, the set screws are correct and not loose, and the bottom surface is flat;
- (5) Product color: black + beige

### 3.2 Product Packing List Description

await a decision

### 4. Regulations and safety instructions for use

## Danger!

Safety warnings and instructions for use

Read product specifications and safety warnings before use to ensure proper use of the product and to ensure safety during product use.



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safety alert

The following operations may cause the battery to leak, heat up or even burn:

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Overcharging

is

prohibited!

Over-

discharging

is prohibited!

Positive and negative short circuits are prohibited!

Please use the specified charger for charging!

Do not hit, knock, nail or disassemble the power supply!

Keep the power supply away from heat

sources and do not throw the power

supply into fire! Prohibit disassembly of

the battery

It is prohibited to

immerse the battery in

liquid, such as water

prohibit the replacement

of the battery

Prohibit the use of

damaged power

supplies Instructions

for use

Do not use or store the power supply outside of the specified range, as this will weaken the performance of the power supply, shorten the life of the power supply, or even cause the power supply to heat up, catch fire, or explode!

Make sure the power supply is under warranty before use.

If the power supply is too dirty, clean them before use or it may

not work properly. Do not allow the output and input holes of

the power supply to come into direct contact with metal.