Specification

ZH-CN-1800A portable power station

Product: 1800W portable power station

Version No.: VER-1.0

Release Date: 2022-11-07

Alteration Resume

Ver No.	Description	Date	Operator
VER:1.0	First Issue	2022-11-07	Liu yang

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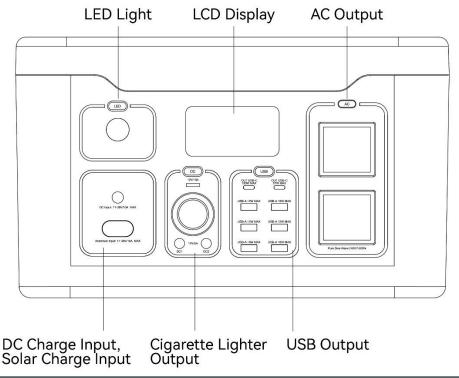
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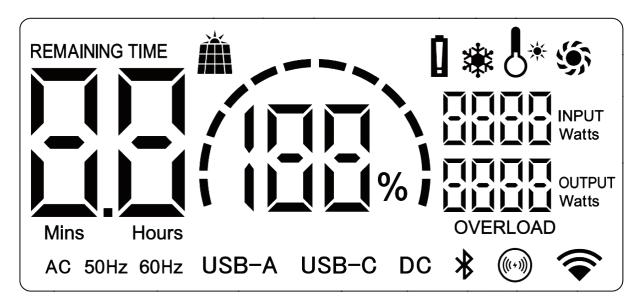
1. Application Environment

- 1.1 As an energy storage power station for out door/office use, it can be connected with mobile phones tablet computers, laptops and other consumer digital devices.
- 1.2 Car charging output port: car refrigerator, air pump, vacuum cleaner.
- 1.3 DC output port: UAV, router, car refrigerator and other 12V power equipment, outdoor photography, off-road enthusiasts use electricity in the field, as well as outdoor electricity for TV camera equipment.
- 1.4 AC output port: electricity consumption for outdoor lighting, emergency electricity for field maintenance of telecommunications departments, energency eletricity for mine, oil field, geological exploration and geological disaster rescue, etc.

2. Product Description and Display Indications



	Button Functions				
Button function	When the power is off, any key can wake up the system. The first time you press the button the display will light up, the second time you press it will turn on the corresponding function.				
DC key switch	Controls 12V DC5521, cigarette lighter. Indicator icon lights up when the switch is open and goes out when it is closed.				
USB key switch	Controls USBA and Type-C. Icon indicator illuminates when switch is on, off when switch is off.				
AC key switch	Controls the inverter AC output. Icon illuminates when the switch is turned on, indication goes off when it is turned off.				
Illuminated key switch	Control LED lighting, SOS warning light.				



	Indicates the current power level of the product. Uses a percentage (%) display. Blinking indicates a charging state.
Mins Hours	Indicates the remaining charging time when charging and the remaining available time when working.
OUTPUT Watts	Indicates the total power currently being output.
DC	When clicking the DC button while the display is lit, the icon shows that the car charger or DC1/2 output port is operational.
USB-A	If the icon is displayed when the USB button is clicked while the display is lit, the USB output port is operational.
USB-C	Plug in the Type-C cable when the USB button is clicked while the display is lit, and the icon shows that the USB-C port is operational.
AC 50Hz	When you click the AC button while the display is lit, the icon shows that the AC output port is operational.
\$	When the temperature reaches 40 degrees, the cooling fan works.
OVERLOAD	Indicates an overload protection alarm.
. *	Indicates an inverter temperature alarm with an action condition of 90-95 degrees.
*	Battery temperature below 0°C, no charging.
(((+)))	Tap the USB button when the display is lit, the wireless charger is in standby mode and works normally when touching the wireless charging device.

3. Power Supply Specifications

more than 3s.

3.1 AC Inp	ut Port						
Item	Input Vol	tage ±10%	le ±10% Input Current (N			t Frequency	Remark
AU	240V		11.1A		47-6	3Hz	
3.2 DC653	0 Input P	ort					
Item		Min	Standard	Max		Remark	
Input Voltag	e Range	11Vdc		30Vdc			
Rated Input	Current			10A		Maximum inp	out power 200W
Reverse Po Protection	larity		Yes				
3.3 Solar E	Energy In	put Port					
Item		Min	Standard	Max		Remark	
Input Voltag	e Range	11Vdc		36Vdc			
Rated Input	Current			10A		Maximum inp	out power 200W
Reverse Po Protection	larity		Yes				
3.4 DC552	1 Output	Port (DC1, I	DC2)				
Item		Min	Standard	Max		Remark	
Output Volta Range	age	11.4Vdc	12Vdc	12.6Vd	С		
Rated Outpo	ut		5A	5A		•	orts and cigarette : 12V120W in total,
Current limit	ting	10A	11A	12A		current limitir will be closed current is reli	current exceeds this ng point, the output d, After the over eved, the system recovers the output
Short Circui	t					connected to	nals and wires external devices are d, and the output tputting
Protection	ι		Yes			system autor output, and t	ort-circuit is lifted, the matically restores the he product does not ous events during the process

3.5 DC (Cigarette L	3.5 DC (Cigarette Lighter) Output Port					
Item	Min	Standard	Max	Remark		
Output Voltage Range	11.4Vdc	12Vdc	12.6Vdc			
Rated Output Current			8.3A			
Current limiting	10A	11A	12A	If the output current exceeds this current limiting point, the output will be closed, After the over current is relieved, the system automatically recovers the output		
Short Circuit				Output terminals and wires connected to external devices are short-circuited, and the output port stops outputting		
Short Circuit Protection		Yes		When the short-circuit is lifted, the system automatically restores the output, and the product does not cause malicious events during the short-circuit process		

Remarks: Overload and short circuit are destructive tests, which cannot be operated continuously for more than 3s.

3.6 QC3.0 (USB-A1,A2: support BC1.2, Apple, Qualcomm QC2.0 and QC3.0, Huawei FCP and SCP, Samsung AFC (MAX 12V), MTK PE+1.0 and MTK PE+2.0, Spreadtrum SFCP, OPPO VOOC)

Item	Min	Standard	Max	Remark
4.5V Output Voltage	4.2V	4.5V	4.8V	
4.5V Output Current		5A		
5V Output Voltage	4.7V	5.0V	5.3V	
5V Output Current		3A/4.5A		
9V Output Voltage	8.5V	9.0V	9.5V	
9V Output Current		2.0A		
12V Output Voltage	11.4V	12V	12.6V	
12V Output Current		1.5A		
Protocol automatic recognition		Yes		Output corresponding voltage and current according to different protocols

Remarks: Overload and short circuit are destructive tests, which cannot be operated continuously for more than 3s. The short-circuit overload can only be tested at 5V. Overload and short circuit can work normally after removing the load.

Output Voltage 4.7V 5.0V 5.3V Output Current 2.4A Max.12W (A1/A3; A2/A4) 3.8 Type-C Output Port (PD3.0/27W) Item Min Standard Max Remark 5V Output Voltage 4.7V 5.0V 5.3V 5.3V 5V Output Current 3A 9V Output Voltage 8.5V 9.0V 9.5V 9V Output Current 3A 12V Output Voltage 11.4V 12V 12.6V 12V Output Current 2.25A Protocol automatic recognition Qurput corresponding voltage and current according to different load 3.9 Type-C Output Port (PD3.0/100W) Item Min Standard Max Remark 5V Output Voltage 4.7V 5.0V 5.3V 5.3V 5.0V 5V Output Voltage 8.5V 9.0V 9.5V 9.5V 9V Output Voltage 11.4V 12V 12.6V 12.6V 12V Out							
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Item Min Standard Max Remark 5V Output Voltage 4.7V 5.0V 5.3V 5V Output Current 3A 9V Output Voltage 8.5V 9.0V 9.5V 9V Output Current 3A 12V Output Voltage 11.4V 12V 12.6V 12V Output Current 2.25A Protocol automatic recognition Min Standard Max Remark 5V Output Voltage 8.5V 9.0V 9.5V 9V Output Current 2.25A Yes Output corresponding voltage and current according to different load 3.9 Type-C Output Port (PD3.0/100W) Item Min Standard Max Remark 5V Output Voltage 4.7V 5.0V 5.3V 5V Output Voltage 8.5V 9.0V 9.5V 9V Output Current 3A 12V Output Voltage 8.5V 9.0V 9.5V 9V Output Voltage 11.4V 12V 12.6V 12V Output Voltage 11.4V 12V 12.6V 12V Output Voltage 11.4V 12V 12.6V 15V Output Voltage 14.2V 15V 15.8V 15V Output Voltage 14.2V 15V 15.8V 15V Output Voltage 19V 20V 21V (electricity≥10%) 20V Output Current 3A 20V Output Current 3A 20V Output Current 3A 15V Output Voltage 19V 20V 21V (electricity≥10%) 20V Output Current 3A 20V Output Current 3A 20V Output Current 3A 15V Output Current 3A	Output Volta	ige	4.7V	5.0	OV	5.3V	
Item Min Standard Max Remark 5V Output Voltage 4.7V 5.0V 5.3V 5V Output Current 3A 9V Output Voltage 8.5V 9.0V 9.5V 9V Output Current 3A 12V Output Voltage 11.4V 12V 12.6V 12V Output Current 2.25A Protocol automatic recognition Yes Output corresponding voltage and current according to different load 3.9 Type-C Output Port (PD3.0/100W) Item Min Standard Max Remark 5V Output Voltage 4.7V 5.0V 5.3V 5V Output Current 3A 9V Output Voltage 8.5V 9.0V 9.5V 9V Output Voltage 8.5V 9.0V 9.5V 9V Output Current 3A 12V Output Voltage 11.4V 12V 12.6V 12V Output Voltage 11.4V 12V 12.6V 12V Output Current 3A 15V Output Current 3A 15V Output Voltage 14.2V 15V 15.8V 15V Output Current 3A 20V Output Current 3A	Output Curr	ent		2.4	4A		Max.12W (A1/A3; A2/A4)
5V Output Voltage 4.7V 5.0V 5.3V 9.0V 9.5V 9.0V 9.5V 9V Output Current 3A 12V Output Voltage 11.4V 12V 12.6V 12.6V 12.6V 12.0V 12	3.8 Type-C	Output	Port (PD3.0/2	27W	<i>I</i>)		
5V Output Current 3A 9V Output Voltage 8.5V 9.0V 9.5V 9V Output Current 3A 12V Output Voltage 11.4V 12V 12.6V 12V Output Current 2.25A Protocol automatic recognition Yes Output corresponding voltage and current according to different load 3.9 Type-C Output Port (PD3.0/100W) Item Min Standard Max Remark 5V Output Voltage 4.7V 5.0V 5.3V 5V Output Current 3A 9V Output Voltage 8.5V 9.0V 9.5V 9V Output Current 3A 12V Output Voltage 11.4V 12V 12.6V 12V Output Current 3A 15V Output Current 3A 15V Output Voltage 14.2V 15V 15.8V 15V Output Voltage 14.2V 15V 15.8V 15V Output Current 3A 20V Output Voltage 19V 20V 21V (electricity≥10%) 20V Output Current 3A	Item		Min	St	andard	Max	Remark
9V Output Voltage 8.5V 9.0V 9.5V 9.5V 9V Output Current 3A 12V Output Voltage 11.4V 12V 12.6V 12.6V 12.6V 12.0V Output Current 2.25A Output corresponding voltage and current according to different load 3.9 Type-C Output Port (PD3.0/100W) Item Min Standard Max Remark 5V Output Voltage 4.7V 5.0V 5.3V 5V Output Voltage 8.5V 9.0V 9.5V 9V Output Voltage 8.5V 9.0V 9.5V 9V Output Current 3A 12V Output Voltage 11.4V 12V 12.6V 12.6V 12.6V 12.6V 12V Output Voltage 14.2V 15V 15.8V 15.8V 15V Output Voltage 14.2V 15V 15.8V 15.8V 15V Output Voltage 14.2V 15V 15.8V 15.8V 15V Output Current 3A 15V Output Voltage 19V 20V 21V (electricity≥10%) 5A current output in standard E-MARKER communication line Protocol automatic recognition Yes Output carnet output in standard E-MARKER communication line Protocol automatic recognition Yes Output carnet output in different protocols Remarks: Overload and short circuit are destructive tests, which cannot be operated continuously for more than 3s. The short-circuit overload can only be tested at 5V. Overload and short circuit can work normally after removing the load.	5V Output V	oltage	4.7V	5.0	OV	5.3V	
9V Output Current 3A Output Voltage 11.4V 12V 12.6V 12.6V 12.0V Output Current 2.25A Output corresponding voltage and current according to different load 3.9 Type-C Output Port (PD3.0/100W) Item Min Standard Max Remark	5V Output C	Current		3 <i>P</i>	\		
12V Output Voltage 11.4V 12V 12.6V 12V Output Current 2.25A Protocol automatic recognition Yes Output corresponding voltage and current according to different load 3.9 Type-C Output Port (PD3.0/100W) Item Min Standard Max Remark Solv 5.3V 5V Output Voltage 4.7V 5.0V 5.3V 5V Output Current 3A 9V Output Voltage 8.5V 9.0V 9.5V 9V Output Current 3A 12V Output Voltage 11.4V 12V 12.6V 12.6V 12.6V 15.V Output Current 3A 15V Output Voltage 14.2V 15V 15.8V 15.8V 15V Output Current 3A 15V Output Voltage 19V 20V 21V (electricity≥10%) 20V Output Current 3A 15V Output Current -	9V Output V	oltage	8.5V	9.0	OV	9.5V	
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Protocol automatic recognition Yes Output corresponding voltage and current according to different load 3.9 Type-C Output Port (PD3.0/100W) Item Min Standard Max Remark 5V Output Voltage 4.7V 5.0V 5.3V 5V Output Current 3A 9V Output Voltage 8.5V 9.0V 9.5V 9V Output Current 3A 12V Output Voltage 11.4V 12V 12.6V 12V Output Voltage 14.2V 15V 15.8V 15V Output Current 3A 15V Output Voltage 14.2V 15V 15.8V 15V Output Voltage 19V 20V 21V (electricity≥10%) 20V Output Current 3A 5A 5A SA current output in standard E-MARKER communication line Protocol automatic recognition Yes Output corresponding voltage and current according to different protocols Remarks: Overload and short circuit are destructive tests, which cannot be operated continuously for more than 3s. The short-circuit overload can only be tested at 5V. Overload and short circuit can work normally after removing the load. 3.10 AC Output Port	12V Output	Voltage	11.4V	12	.V	12.6V	
recognition	12V Output	Current		2.2	25A		
Item Min Standard Max Remark 5V Output Voltage 4.7V 5.0V 5.3V 5V Output Current 3A 9V Output Voltage 8.5V 9.0V 9.5V 9V Output Current 3A 12V Output Voltage 11.4V 12V 12.6V 12V Output Current 3A 15V Output Voltage 14.2V 15V 15.8V 15V Output Current 3A 20V Output Voltage 19V 20V 21V (electricity≥10%) 20V Output Current 3A 5A	Protocol aut	omatic		Ye	es		
5V Output Voltage 4.7V 5.0V 5.3V 5V Output Current 3A 9V Output Voltage 8.5V 9.0V 9.5V 9V Output Current 3A 12V Output Voltage 11.4V 12V 12.6V 12V Output Current 3A 15V Output Voltage 14.2V 15V 15.8V 15V Output Current 3A 20V Output Current 3A 15V Output Voltage 14.2V 15V 15.8V 15V Output Current 3A 20V Output Current 3A 20V Output Voltage 19V 20V 21V (electricity≥10%) 20V Output Current 3A 3A 3A 3D 3A 20V Output Current 3A 3A 3A 3A 20V Output Current 3A 3A 3A 3A 3D 3A 20V Output Current 3A 3A 3A 3A 3A 20V Output Current 3A 4A 4	3.9 Type-C Output Port (PD3.0/100W)						
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9V Output Voltage 8.5V 9.0V 9.5V 9V Output Current 3A 12V Output Voltage 11.4V 12V 12.6V 12V Output Current 3A 15V Output Voltage 14.2V 15V 15.8V 15V Output Current 3A 20V Output Voltage 19V 20V 21V (electricity≥10%) 20V Output Current 3A 5A 5A current output in standard E-MARKER communication line Protocol automatic recognition Yes Output corresponding voltage and current according to different protocols Remarks: Overload and short circuit are destructive tests, which cannot be operated continuously for more than 3s. The short-circuit overload can only be tested at 5V. Overload and short circuit can work normally after removing the load. 3.10 AC Output Port	5V Output V	oltage	4.7V	5.0	OV	5.3V	
9V Output Current 3A 12V Output Voltage 11.4V 12V 12.6V 12V Output Current 3A 15V Output Voltage 14.2V 15V 15.8V 15V Output Current 3A 20V Output Voltage 19V 20V 21V (electricity ≥ 10%) 20V Output Current 3A 5A current output in standard E-MARKER communication line Output corresponding voltage and current according to different protocols Protocol automatic recognition Yes current according to different protocols Remarks: Overload and short circuit are destructive tests, which cannot be operated continuously for more than 3s. The short-circuit overload can only be tested at 5V. Overload and short circuit can work normally after removing the load. 3.10 AC Output Port	5V Output C	Current		3 <i>A</i>	1		
12V Output Voltage 11.4V 12V 12.6V 12V Output Current 3A 15V Output Voltage 14.2V 15V 15.8V 15V Output Current 3A 20V Output Voltage 19V 20V 21V (electricity≥10%) 20V Output Current 3A 5A 5A current output in standard E-MARKER communication line Protocol automatic recognition Yes Output corresponding voltage and current according to different protocols Remarks: Overload and short circuit are destructive tests, which cannot be operated continuously for more than 3s.The short-circuit overload can only be tested at 5V. Overload and short circuit can work normally after removing the load. 3.10 AC Output Port	9V Output V	oltage	8.5V	9.0	OV	9.5V	
12V Output Current 3A 15V Output Voltage 14.2V 15V 15.8V 15V Output Current 3A 20V Output Voltage 19V 20V 21V (electricity ≥ 10%) 20V Output Current 3A 5A 5A MARKER communication line Protocol automatic recognition Yes Output corresponding voltage and current according to different protocols Remarks: Overload and short circuit are destructive tests, which cannot be operated continuously for more than 3s. The short-circuit overload can only be tested at 5V. Overload and short circuit can work normally after removing the load. 3.10 AC Output Port	9V Output C	Current		3 <i>A</i>	1		
15V Output Voltage 14.2V 15V 15.8V 15V Output Current 3A 20V Output Voltage 19V 20V 21V (electricity ≥ 10%) 20V Output Current 3A 5A 5A current output in standard E-MARKER communication line Protocol automatic recognition Yes Output corresponding voltage and current according to different protocols Remarks: Overload and short circuit are destructive tests, which cannot be operated continuously for more than 3s. The short-circuit overload can only be tested at 5V. Overload and short circuit can work normally after removing the load. 3.10 AC Output Port	12V Output	Voltage	11.4V	12	:V	12.6V	
15V Output Current 3A 20V Output Voltage 19V 20V 21V (electricity ≥ 10%) 20V Output Current 3A 5A 5A current output in standard E-MARKER communication line Protocol automatic recognition Yes Output corresponding voltage and current according to different protocols Remarks: Overload and short circuit are destructive tests, which cannot be operated continuously for more than 3s. The short-circuit overload can only be tested at 5V. Overload and short circuit can work normally after removing the load. 3.10 AC Output Port	12V Output	Current		3 <i>A</i>	1		
20V Output Voltage 19V 20V 21V (electricity ≥ 10%) 20V Output Current 3A 5A current output in standard E-MARKER communication line Protocol automatic recognition Yes Output corresponding voltage and current according to different protocols Remarks: Overload and short circuit are destructive tests, which cannot be operated continuously for more than 3s.The short-circuit overload can only be tested at 5V. Overload and short circuit can work normally after removing the load. 3.10 AC Output Port	15V Output	Voltage	14.2V	15	SV .	15.8V	
20V Output Current 3A 5A 5A current output in standard E-MARKER communication line Protocol automatic recognition Yes Output corresponding voltage and current according to different protocols Remarks: Overload and short circuit are destructive tests, which cannot be operated continuously for more than 3s.The short-circuit overload can only be tested at 5V. Overload and short circuit can work normally after removing the load. 3.10 AC Output Port	15V Output	Current		3 <i>A</i>	1		
Protocol automatic recognition Yes Remarks: Overload and short circuit are destructive tests, which cannot be operated continuously for more than 3s. The short-circuit overload can only be tested at 5V. Overload and short circuit can work normally after removing the load. 3A SA MARKER communication line Output corresponding voltage and current according to different protocols Noverload and short circuit can work at 5V. Overload and short circuit can work normally after removing the load.	20V Output	Voltage	19V	20	V	21V	(electricity≥10%)
Protocol automatic recognition Yes current according to different protocols Remarks: Overload and short circuit are destructive tests, which cannot be operated continuously for more than 3s. The short-circuit overload can only be tested at 5V. Overload and short circuit can work normally after removing the load. 3.10 AC Output Port	20V Output	Current		3 <i>A</i>	\	5A	-
more than 3s.The short-circuit overload can only be tested at 5V. Overload and short circuit can work normally after removing the load. 3.10 AC Output Port	Protocol automatic recognition		Ye	es		current according to different	
	Remarks: Overload and short circuit are destructive tests, which cannot be operated continuously for more than 3s.The short-circuit overload can only be tested at 5V. Overload and short circuit can work normally after removing the load.						
Itam No load Output Voltage Output Voltage with load Demark	3.10 AC O	utput Po	rt				
Item No-load Output Voltage Output Voltage with load Remark	Item	No-load	Output Voltage		Output Volta	age with load	Remark

ΔΠ	AU 240V 240V							±10%
Output Wav		T	Duro s		`			Rated resistive load
				Pure sine wave				
Output Fred		49Hz	50Hz			51Hz		AS/ES (AS 60Hz±1Hz)
Rated Outp Power	ut	1800W						
Transient P	ower					3600W		1800-3600W into constant power (output dropout voltage) > 3600W
Output Pow Factor	er		1					
Efficiencies		88%				92%		Resistive load, full load output
Short Circui Protection	t		Yes					Output terminals and wires connected to external devices are short-circuited, and the output port stops outputting
Overload Protection						1800W		Output power greater than 1800W more than 0.5S, reduce the output voltage, when the voltage is reduced to 170Vdc below the shutdown protection, need to manually restore
Inverter Over Temperature Protection		90°C						Inverter output stops after protection and needs to be restored manually
Remarks: C		d and short ci	rcuit are	destruc	tive te	sts, whic	h ca	nnot be operated continuously for
3.11 LED I	_ight /	sos						
Item		Min	Standa	ard	Max		Re	mark
Power of Lig	ght	1W	2W		3W			
ССТ		5500K	6000K		6500	K		
		Press once fo	r a sho	rt time to	keep	it on, and	d the	brightness is 30%
		Then press th	ne brigh	tness for	one n	nore time	e, an	d the brightness is 100%
Working Mo	de	Then press th						
	-	Then press the brightness for one more time to close						
3.12 Wirel	3.12 Wireless Charge (Support 5W、Apple 7.5W、Samsung 10W、15W Charging)							
Item		Min	Standa		Max		<u> </u>	mark
Charge Pov	ver	5W	10W 15W Automatic recognition of phone charging power				·	
3.13 Batte	3.13 Battery pack specifications							
Item	Standa	ard			Re	mark		

Rated Voltage		43.56V			
Rated Power		1306.8wh			
3.14 Battery P	ack System	Protection			
Item	Min	Standard	Max	Remark	
Undervoltage protection	32.5V	33V	33.5V	When the discharge voltage reaches the low protection voltage, the product stops working	
3.15 Product Si	hutdown Sel	f Consumption	n Current and	d Sleep	
Item	Standard	Remark			
Shutdown Self Consumption	≤100Ua				
Total Power Consumption	Hibernation	<1W, if there is no input/output within 10s, the system will enter the hibernation mode			

Remark: Hibernation function, any output port of the product has a corresponding control switch button. When not in use, it is necessary to turn off the output of this port to reduce the standby power consumption of the unit. If the whole machine is not used for more than 10s and no output is detected, the system will automatically shut down to prevent the product from self consumption. (Hibernation is to reduce the power consumption of the switchboard and improve the battery utilization.)

3.16 Weight and Size	
N.W.	10.76KG
G.W.	13.06KG
Product Dimension	340*236*205mm
Package Dimension	413*300*290mm
Master Carton Dimension	428*318*313mm 1pcs/Ctn

4. Operating Environment

Working Environment Temperature						
Item	Min	TYP	Max	Remark		
Working Temperature	-10°C		35°C	The ambient temperature at which the product works normally		
Storage Temperature	-20°C		60°C	It is suitable for storage when produce is not working		
Charging Environment Temperature	O°C		35°C	When Environment gets below -10°C, Charging efficiency will		
Discharge Operating Temperature	-10°C		35°C	decline which will affect the service life of the battery		

environment (35 °C), system will detect that the temperature of the battery exceeds 65 °C. To ensure the safe use of the electric core, all output ports are turned off. At this time, the battery will be prohibited from discharging. 2.When the product is working for discharge in a low-temperature environment (0 °C), system will detect that the temperature of the battery under 0°C. To ensure the safe use of the electric core, all output ports are turned off. At this time, the battery will be prohibited from discharging. 3.All test items should be tested at ambient 25±2°C	Remark	are turned off. At this time, the battery will be prohibited from discharging. 2.When the product is working for discharge in a low-temperature environment (0 °C), system will detect that the temperature of the battery under 0°C. To ensure the safe use of the electric core, all output ports are turned off. At this time, the battery will be prohibited from discharging.
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5. Battery Compatibility

5.1 EMS

The power station shall be compliant with the following criterion:

1) ESD

*GB17626.2-1998/IEC61000-4-2

2) EFT

*GB17626.4-1998/IEC61000-4-4 1KV

6. Safety Specifications

- 6.1 Power supply safety meets the following criteria (under application)
 - 1) TEL
 - ② CE/FCC
 - ③ PSE
 - 4 UN38.3
- 6.2 Insulation properties
 - 6.2.1 Dielectric withstand voltage

Primary to secondary: 2000VAC 5mA 60S

AC ground and output negative are to be disconnected.

7. Precautions

- 1. For the first time, it is recommended that the mobile power supply should be fully charged and the three-plug word input line should be used.
- 2. Insufficient power is shown during use, please recharge as soon as possible.
- 3. When the power port is not in use, press the on key to turn it off to save power.
- 4. If the product is not used for a long time, it should be recharged every 3 months. It is better to keep the electricity at 60%, 80%, and store it in a cool and dry place.
- 5. After long-term storage, the product needs to be charged and discharged several times to obtain the best use effect.
- 6. The screen shows that the current energy available time of the product varies with the change of the current output power, the power of the load is not constant, and the display time is only roughly estimated based on the current power.
- 7. When the device power of the AC output port is less than 2W, the output will be turned off automatically after 45 minutes of work.

- 8. When the USB output port uses the device power less than 1W, the product will automatically turn off the output after working for 8 hours.
- 9. When the DC or the vehicle charging output port uses the device power less than 1W, the output will be turned off automatically after working for 8 hours.
- 10.AC output power lasts 1800W (peak 3600W), exceeding the maximum power of 1800W 0.5s, the product will automatically turn off the power supply to protect the product from damage due to overload use. The AC output side overload short circuit will alarm flicker, the screen appears exclamation point, remove the fault and then re-open the AC button.
- 11. The USB output terminal is overloaded, short-circuited and has no output. Remove the load fault device and release it.
- 12.DC and car charging output short-circuit overload will alarm, DC symbol flashes, re-open the DC button to release.
- 13. The charging voltage shall not exceed the maximum value specified in this specification. Exceeding the nominal input voltage may cause permanent damage to the product and may cause problems with the charging and discharging performance, mechanical performance and safety performance of the battery core.

8. Aging Test Standards

Aging Sequence In Mass Production		
No.	Step	
1	Charged full	
2	Discharged	
3	Recharge 40% to 50%	
Remark: Need to record aging results		

9. Packing List

No.	Item / Specification	Num
1	Product Unit	1
2	User Manual	1
3	AC Three-Plug Charging Cable	1
4	Car Charging Cable	1
5	MC4 Adapter Cable	1