

# URBI

## PORTABLE POWER STATION

Model	URBILINE-M3-300W
Total output power AC(W)	300W(max.600W)
Rated Capacity	280WH



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## 1. Scope

This specification is applied to Power Station with Model M3EB manufactured

## 2. Precautions for use

- ◆ Please keep the equipment clean, dry, and away from high temperature areas. Do not approach ignition sources
- ◆ When handling equipment, please do not shake it significantly, as it may cause personal injury due to falling
- ◆ Please place the device on a sturdy surface for use
- ◆ Children, individuals lacking physical, sensory, and spiritual abilities, as well as adults who have not understood the content of this manual, are not allowed to operate this product
- ◆ Please recycle and dispose of products in accordance with local laws and regulations
- ◆ It is prohibited to disassemble, puncture, or drop the product in any way, and it is not allowed to expose the output interface for non-standard operations such as short circuits
- ◆ Equipment must be modified or repaired by the manufacturer, maintenance department, or professional personnel
- ◆ Under certain circumstances, the device may automatically shut down, hibernate, and disconnect output in order to protect system safety and maintain battery pack life
- ◆ If the device has been stored for more than 3 months and has not been started, please ask the customer to use a charger within the specified parameter range for the product to undergo a charging and discharging cycle;
- ◆ It is prohibited to disassemble batteries, short-circuit batteries, or use illegal chargers to charge devices, which can cause danger
- ◆ Do not directly touch the leaking battery. The leaked electrolyte can cause skin discomfort. In case the electrolyte enters the eyes, please rinse with clean water as soon as possible, do not rub the eyes, and promptly seek medical attention;
- ◆ If there is dirt on the machine interface, use a dry cloth to wipe it clean. Otherwise, poor contact may occur, resulting in energy loss or inability to charge or discharge

## 3. Basic parameters of energy storage

### 3.1 Basic battery parameters

NO	Item	Specification parameter
1	Lithium ion cell	Steel shell battery of LiFeCoPO4
2	Nominal Capacity	280WH
3	Model	LY32140 12500mAh (3C)

4	Series parallel connection method	7S1P 22.4V 12.5AH
5	Operating Temperature	0°C-55°C
6	Cycle Life Characteristics	≥1500@Soc80%
7	Self consumption	100uA, sleep state. Stop all charging, discharge

### 3.2 Battery BMS parameters

NO	Item	Specification parameter
1	Short Circuit Protection	Support
2	Overcharge protection voltage	3.6V +-0.5
3	Over-discharge protection voltage	2.6V +-0.2V
4	Working current	Sustain (20A) Moment (40A 3S)
5	Equalizing opening voltage	3.5V+-0.02V
6	High temperature protection during charging	52°C +-3°C
7	Low temperature protection during charging	0°C +-3°C
8	High temperature protection during discharge	52°C +-3°C
9	Low temperature protection during discharge	-10°C+-3°C
10	BMS static power consumption BMS	product in sleep state, BMS power consumption≤150uA
11	Does it support charging while discharging	Yes

### 3.3 Main control board parameters

#### 3.3.1 DC input Port Parameters DC

NO	Item	Specification parameter
1	INPUT VOLTAGE	12V-28V

2	Over voltage protect	30V
3	Input power	100W
4	Input efficiency	85%+-5%
5	Car charging input	12V-28V
6	SOLAR INPUT	12V-28V
7	Port specifications	7909

### 3.3.2 USB output port parameters USB

NO	Item	Specification parameter
1	USB1 (output port ⑧)	Output 5V 2.4A, USB1 shares one circuit with TYPE-C ⑨
2	USB2 (output port)	QC3.0 5V/9V/12V 18W supports QC3.0 and QC2.0 protocols as well as ordinary protocols

### 3.3.3 TYPE-C output port parameters TYPE-C

NO	Item	Specification parameter
1	TYPE-C (output port)	Output 65W, 5V/9V/12V/15V/20V, TYPE-C and USB1 ⑧ share the same circuit, while using a voltage drop of 5V 2.4A
2	TYPE-C Support Protocol	Supports protocols such as PD2.0 and PD3.0

### 3.3.4 Cigar lighter output parameters

NO	Item	Specification parameter
1	No-load voltage	12V
2	Full load output voltage	12V+-1V
3	Full load output current	8.3A
4	Output power	MAX 100W
5	Short circuit protection	Support

### 3.4 Adapter parameters

NO	Item	Specification parameter
1	Input Voltage	100V-240V
2	output power	60W
3	Output voltage	20V

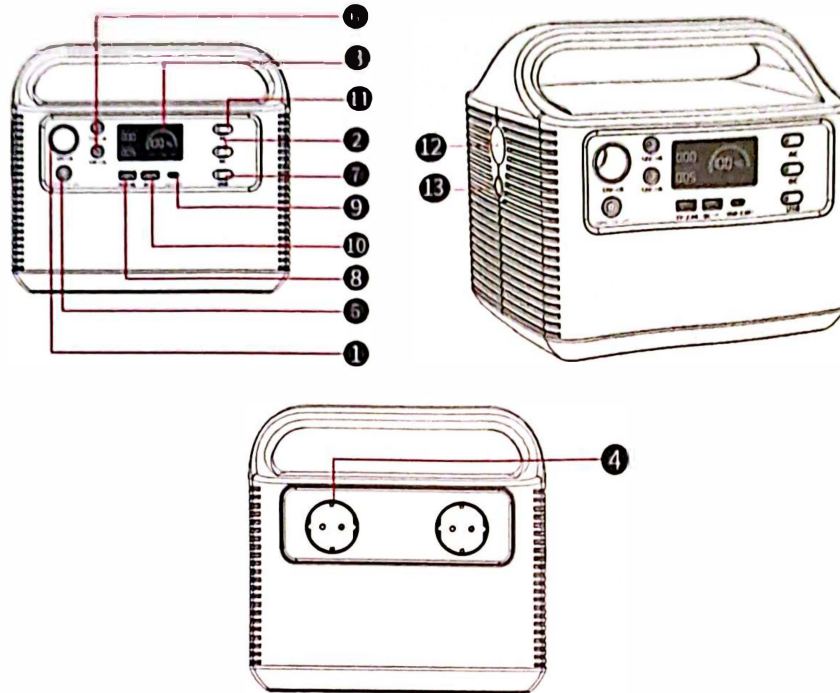
### 3.5 AC Inverter parameters

NO	Item	Specification parameter
1	Output voltage range	110Vac 230Vac-50Hz/60Hz
2	Output waveform	sine wave
3	Output frequency switching	Support
4	No-load loss	<20W
5	Rated output power	300W
6	Output efficiency	90%
7	Overload protection Over-current protection	Support
8	Short circuit protection	Support
9	Temperature protection	85°C+3°C
10	Instantaneous power	600W/5mS
11	Empty hold time	Automatic shutdown after idle standby for 8 hours

### 3.6 LED light parameters

NO	Item	Specification parameter
1	Power	1W

## 4. Functional operation instructions



### 4.1 Control buttons

Number	Name	Function Description
③	Display screen	Machine status display
⑪	AC switch key	Click the AC button once to open AC output, display the AC and Hz icons, and AC starts working. Click the AC switch once to turn off AC output, the AC icon disappears, and AC stops working. When AC is on, press and hold the AC button for 3 seconds to automatically switch between 50Hz or 60Hz.
⑦	USB button	Click the USB button once to open the USB output, display the USB icon, and the USB starts working. Click once to turn off USB output, the USB icon disappears, and the USB stops working.
②	DC button	Click the DC button once to open the DC output, display the DC icon, and the DC will start working. Click once to turn off DC output, the DC icon disappears, and the DC stops working.
⑬	LED light button	Click once to turn on the LED output, the LED remains on for a long time, click again for a quick flash, and then click close.
Power button		Long press any key for 1 second to turn it on, and long press any key for 1 second to turn it off. After turning on, the display screen lights up, displaying


	Information such as battery level. Attention: All function keys cannot work when the power is not turned on
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## 4.2 Charging function

Number	Name	Function Description
⑤	DC Input	When connected to a DC or solar power source, the display screen displays INPUT to display the charging power. The battery level display on the display screen flashes incrementally from left to right, with each cell representing 10% of the battery level. When all 10 cells of the battery level are lit and the battery percentage is displayed at 100%, it indicates that the product is fully charged.

## 4.3 Discharge Function

### 4.3.1 AC output

Number	Name	Function Description
④	AC output	When the energy storage power supply is discharged, the gradual decrease in battery power represents a 10% decrease in battery power. The 10 cells represent 10%, 20%, 30%, 40%,... 100% of the battery  capacity. Attention: The maximum output power is 300W. If the load exceeds 320W, the power supply will enter the protection state and emit a beep alarm. The alarm symbol will appear on the display screen. At this time, the load device needs to be removed, any key needs to be pressed to release the alarm, and the load power will be reduced to within the rated power for normal use.

### 4.3.2 Cigarette lighter output

Number	Name	Function Description
①	Cigarette lighter output	The cigarette lighter output is 12V/8.3A, supporting a maximum load of 100W. If the power supply exceeds 100W and enters the protection state, turn off the output. At this time, it is necessary to remove the DC load device and reduce the load power to within the rated power for normal use.

### 4.3.3 DC 5521 output

Number	Name	Function Description

⑥	5521 output	Two 5521 ports output 12V/8.3A, with a maximum support of 100W, in parallel with the cigarette lighter output port. If more than 100W output is used simultaneously to enter the protection state, and the output is turned off, the load device needs to be removed and the load power needs to be reduced to within the rated power for normal use.
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#### 4.3.4 USB output USB

Number	Name	Function Description
⑧ ⑨ ⑩	USB output	The USB/TYPER-C output power can be seen in the USB output port parameters in 3.3.2 and 3.3.3, which are connected to the load for operation. If the required voltage of the connected load exceeds the rated voltage or the load exceeds the rated output power or there is a short circuit phenomenon, the USB port will automatically disconnect and stop the output. The device needs to be removed, checked, or the load power reduced to within the rated power for normal use.

#### 4.3.5 LED output LED

Number	Name	Function Description
⑪	LED lamp	A 1W LED light, divided into long on and SOS flashing.

## 5. Precautions

When the product is not in use or idle, please shut down or turn off the unused features, otherwise it will consume your battery and avoid resource waste.

## 6. Display Description



Number	Name	Function Description
①	Charging power icon	Display real-time charging power
②	Output power icon	Display real-time output power
③	Hz icon	Display the current frequency as 50Hz
④	Percentage icon	Display current battery percentage
⑤	Warning icon	The icon indicating abnormal AC input or output (overload, short circuit, high temperature) flashes. At this point, it is necessary to remove the charging or load device, press any button to release the alarm, and reduce the load power to within the rated power for normal use.
⑥	Battery icon	Display the current State of charge, 10% power per grid generation.
⑦	DC icon	The DC icon remains on, indicating that the DC is in an open state.
⑧	USB icon	The USB icon remains on, indicating that the USB is turned on.
⑨	AC icon	The AC icon is constantly on, indicating that AC is on.