

# UPS300-2

## 300W Portable Power Station

### Datasheet



Dimension: 225mm\*120mm\*215 mm

Weight: 2.86kg

Materials: PC (Top and Bottom) + ABS (Middle Frame)

### Specifications

Item	Rating	Remark
<b>Battery</b>		
Category	Li-ion 21700 Battery	
Rated Capacity(mAh)	288Wh	3C Discharge
Nominal Voltage(V)	3.6V	
Cut Down Voltage	3.0V	
Maximum Charge Voltage	4.2V±0.05V	
Charging Method	CC/CV	charge with constant current 0.2C to 4.2V, then charge with constant voltage 4.2V till charge current is less than 0.01C
Initial Internal Resistance	≤25mΩ	
Cell Dimension(mm)	160*71*83mm	Battery Pack Size
Weight	1.58kg	Battery Pack Weight
Operating Temp for Charging(°C)	0°C~45°C	
Operating Temp for Discharging(°C)	-10°C~45°C	
Storage Temp(°C)	-20°C~55°C	Less than 1 month
	-20°C~45°C	Less than 3 months
	-20°C~25°C	Less than 1 year
Cycle Life	≥1000 Times	Charging: 0.2C Constant Current and constant voltage charged to 4.2V, current less than or equal to 0.02C will be cut off. Discharging: 0.2C discharge to 3.0V will be cut-off. When the discharge capacity drops to 80% of the standard capacity, the test is stopped.

### Performance

Charging Method	CV/DC	Mode of Input Voltage
USB1/USB2(Output)	5V=2.1A	
USB QC3.0(Output)	5V=3A;9V=2A;12V=1.5A	QC18W
USB-C Port(Output/Input)	5V=2.4A;9V=3A;12V=3A;15V=3A;20V=5A	PD100W
DC1/DC2(Output)	12~13V=8~10A	
AC Port(Output)	110V~220V/50Hz~60Hz	300W
DC(Input)	5V~20V=5A	

### Portable Power Station

Quiescent Current(uA)	≤400uA	Standby Current less than 400uA
Input Protection Voltage	25V	
Over Discharging Protection Voltage(V)	2.7±0.25V 12V	When the voltage is below 3.0V, the output voltage is disconnected by the system.
Over Current Protection current(A)	40~50A	When the output current is too large, the output voltage will be disconnected.
Short Circuit Protection	Support short circuit to automatically recover	When the positive and negative terminals of the output short-circuit, the output voltage will be disconnected by the system.

### Other Features

Output Waveform	Pure Sine Wave	
Total Output Power(W)	300W(600W at peak)	
Output Ripple Voltage(mV)	≤300mV	
Charging Time(h)	5.5h~7h	Theoretical Charge Time
Solar Panel Power	18V/40W/60W/80W/100W	Affected by sunlight intensity
LED Power	7W	
Battery Maintenance	Charge Every 3 Months	
Working Life	1000 times	Capacity ≥80%
Highest Temperature Inside		When the output is full, the output is turned off at over temperature.
Highest Temperature Outside Surface		When the output is full, the output is turned off at over temperature.
Start When Pressing the Button		Start when pressing the button or inserting.
Power OFF		If the load cannot be detected within 30 seconds after starting the output, it will be automatically Closed. Low power, short circuit, overload, overheating will shut down the output.
Minimum Output Current (min)	60±20mA	Minimum output current without load.
Delay Time to Power Off	30S	After button be pressed.
	35S	If there was a load lower than 50mA and keeps for about 40 seconds, output will be closed then device will sleep at once.

### LED Display

Display After Press the Button or Insert Loading		LCD Display Screen to indicate the current discharging details.
		There are tolerance for remaining capacity estimate.
Display When Charging		LCD Display Screen to indicate the current charging details.
		There are tolerance for remaining capacity estimate.

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