

EGRETECH

Portable Power Station Plume

PLUME 300W

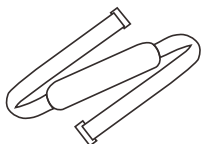
English

INSTRUCTION MANUAL

Packing List



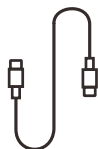
Plume 300W×1



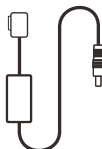
Shoulder strap & shoulder rest×1



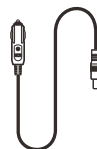
Operation manual & warranty card×1



60W C-C charging cable×1



65W power adapter & cable×1



Car charger to DC cable×1

Product Specification

Basic Information

Product name: Portable Power Station Plume

Battery type: Lithium battery

Battery capacity: 14.4V; 18Ah; 260Wh

Operating temperature during discharging: 14~140°F (-10°C~60°C)

Operating temperature during charging: 32~122°F (0°C~50°C)

Product model: Plume 300W

Net Weight: ≈4.74lbs (2.15kg)

Output

AC output: 120V/60Hz, 300W Max, Pure sine wave

USB-C1 output: 5V⇄3A; 9V⇄3A; 12V⇄3A; 15V⇄3A; 20V⇄5A, 100W Max

USB-C2 output: 5V⇄3A; 9V⇄2.22A; 12V⇄1.67A, 20W Max

USB-A1/A2 output: 4.5V⇄5A; 5V⇄4.5A; 5V⇄3A; 9V⇄2A; 12V⇄1.5A, 22.5W Max

DC2 output: 12V⇄3A, 36W Max

Maximum total discharge power of the complete machine (AC+DC): 501W

USB-A output support protocol: Apple2.4A; BC1.2; QC3.0/2.0; FCP; AFC; MTK PE; SCP

USB-C output support protocol: Apple2.4A; BC1.2; QC3.0/2.0; FCP; AFC; MTK PE; SCP (USB-C1 only); PD3.0 (USB-C1 only)

Input

USB-C1 input: 5V⇄3A; 9V⇄3A; 12V⇄3A; 15V⇄3A; 20V⇄5A, 100W Max

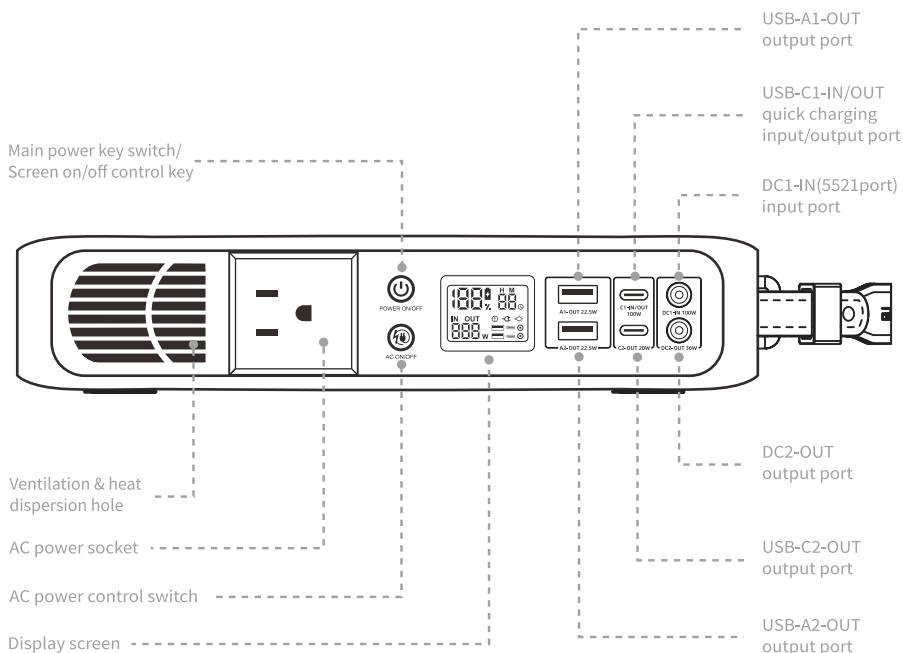
DC1 input: 12~24V, 100W Max



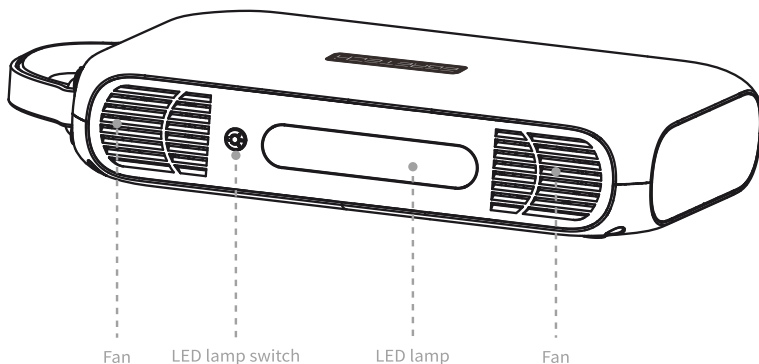
* The USB-C1 port has no input nor output when the DC 5521 port is inputted.

Product Introduction

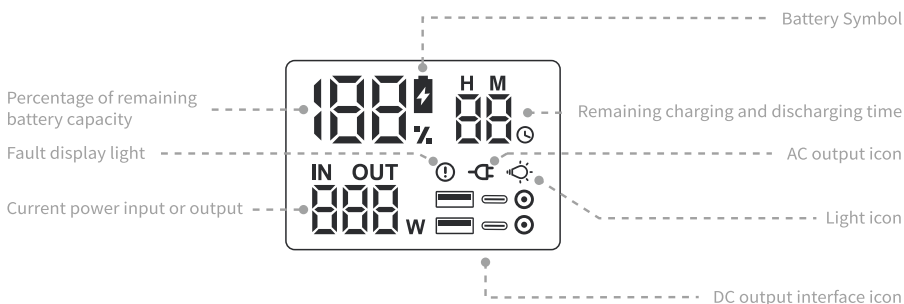
Front











Back



Introduction of User Interaction Interface



	<p>Battery Symbol</p> <ol style="list-style-type: none"> 1. During normal discharge, the icon remains illuminated. 2. When charging, the symbol flashes at an interval of 1s.
	<p>Percentage of remaining battery capacity</p> <p>Display the current remaining battery level.</p>
	<p>Remaining charging and discharging time</p> <ol style="list-style-type: none"> 1. When the power supply is in a charging state, this time represents the time it takes to fully charge, and IN lights up. 2. When the power supply is in a discharge state, this time represents the time when the battery can still be maintained, and OUT lights up.
	<p>Current power input or output</p> <ol style="list-style-type: none"> 1. When charging only, the power display shows the input power, and IN lights up. 2. When only discharging, the output power is displayed and OUT lights up. 3. When charging and discharging simultaneously, the input power and output power are displayed alternately, with an interval of 2s.
	<p>AC output icon</p> <p>Displayed when AC socket is connected.</p>
	<p>Light icon</p> <p>Display when the light is on.</p>

	<p>DC output interface icon Corresponds to the actual interface of the product one by one, and when the interface is connected to the device, the corresponding icon lights up.</p>
	<p>Fault display light</p> <ol style="list-style-type: none"> 1. When a malfunction occurs, the light comes on. In order to attract attention, the behavior of the light is flashing with an interval of 1s, accompanied by a beeping sound. 2. In order to clarify the type of fault, when a fault occurs, the power display will display the fault code. 3. Fault code <p>E01: High temperature protection for battery pack discharge. E02: Low temperature protection for battery pack discharge. E03: High temperature protection for battery pack charge. E04: Low temperature protection for battery pack charge. E05: Battery pack undervoltage protection. E06: Inverter output overload. E07: Inverter high temperature protection. E08: Inverter input undervoltage protection. E09: Inverter output short circuit. E10: Inverter output voltage low. E11: Inverter output voltage high. E12: Inverter output fault.</p>

* Due to the iterative upgrade of the product's LCD screen, please refer to the product you purchased. Thank you for your understanding!

Energy Saving Status

1. When the device is turned on, the display screen will go to sleep after no load and no key operation for more than 10min, but the battery is still running. When the device senses the interface terminal plugging/unplugging or key operation, the display screen will automatically light up.
2. When the device is turned on, the AC module closes its output after the load of the AC module is less than 1W and kept for over 1h; When the DC module load is less than 1W and the AC module has been turned off, the device will automatically shut down after being kept for over 2h.

* Due to product iteration and upgrade, the sleep time of each version is slightly different. Please refer to the product you purchased. If you have any questions, please consult customer service for answers. Thank you for your understanding!

Description of Switch Function

Main power key switch/Screen on/off control switch



1. Long press the switch for 3s, the device will start up and the display screen will light up.
2. Short press the switch to turn on or off the display screen.
3. When the device is powered on, long press the switch for 3s, the device will turn off all outputs and shut down.

AC power control switch



1. When the device is powered on, Short press the switch, the AC module will turn on and the "AC" icon on the display screen will light up.
2. When the AC module is turned on, Short press the switch, the AC module is turned off.



* When using AC module for output, the power of electrical device connected to the socket shall not exceed 300W.

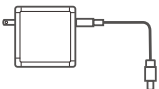
LED lamp control switch



1. When the device is powered on, long press the switch for 3s, the LED lamp will turn on and the "LED" icon on the display screen will light up.
2. After the LED lamp is turned on, short press the switches in turn, the LED lamp will cycle in six light modes: "Low brightness", "medium brightness", "high brightness", "slow flash", "quick flash" and "SOS".
3. When the LED lamp is turned on, long press the switch for 3s, the LED lamp is turned off.

Operating Diagram

Charging mode for the product



Use a 100W PD charger
About 3~4h to fill up



Use the car charge
cigarette lighter
About 3~4h to fill up



Use a 65W power adapter
About 4~5h to fill up



Use 100W solar panels
About 5~6h to fill up

Support to Charge the Devices in the Following Scenarios

Digital accessories



Mobile phone 12Wh
≈19.5 Times



Pad 30Wh
≈7.8 Times



Macbook 60Wh
≈3.9 Times



Switch 16Wh
≈14.6 Times

Power outage emergency



iMac 143W
≈1.6h



TV 110W
≈2.1h



Fan 45W
≈5.2h



Refrigerator 120W
≈2.0h

Self-driving travel



LED lamp 5W
≈46.8h



Saucepan 200W
≈1.2h



Rice cooker 280W
≈0.8h



Car refrigerator 40W
≈5.9h

Medical Service



Respirator 40W
≈5.9h



Blood-pressure meter 30W
≈7.8h



Oxygen generator 150W
≈1.6h



Atomizer 20W
≈11.7h

* Please pay attention to the quantity condition and ensure that the quantity shall not run out to affect the operation of medical equipment.

Outdoor camping



Projector 180W
≈1.3h



Camping lamp 10W
≈23.4h



Electric blanket 60W
≈3.9h

Photography & aerial photography



UAV 40Wh
≈5.9 Times



Digital camera 16Wh
≈14.6 Times



SLR camera 23Wh
≈10.2 Times

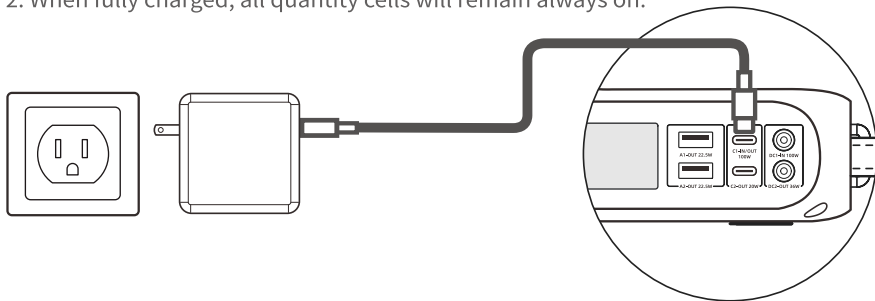
Charging the Product



* USB-C1 port and 5521 port do not support simultaneous charging. When both ports are connected, the system will select 5521 port as the only input by default, and USB-C1 port has no input at this time. When DC 5521 port inputs, USB-C1 port cannot output.

Charging with PD Charger

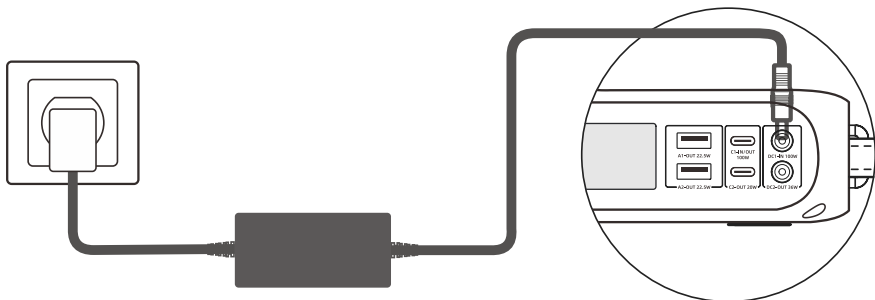
1. The product supports up to 100W charging input. After connecting the power line to the USB-C1 IN/OUT interface, the quantity cells of the display screen will flash in turn and display the charging power. The actual input power depends on the specification of the PD charger and USB-C charging line used.
2. When fully charged, all quantity cells will remain always on.



Charging with DC power adapter

1. When charging with the accessory 65W power adapter, after connecting the power line to the DC1-IN (5521) interface, the quantity cells of the display screen will flash in turn and display the charging power.
2. When fully charged, all quantity cells will remain always on.

(* The product supports up to 100W charging input, and the user can match 100W power adapter suitable for the product.)

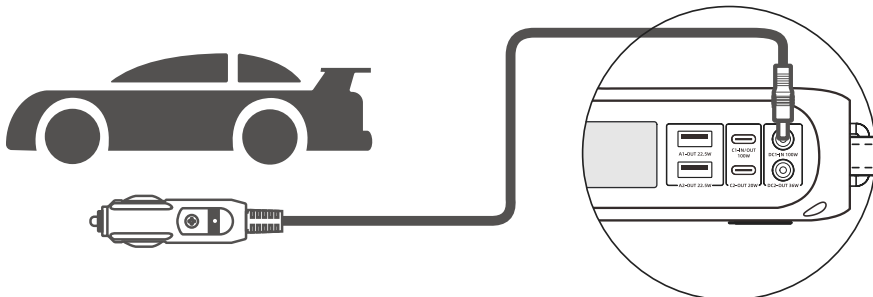


Charging with car

1. When selecting the car cigarette lighter port, connect the DC1-IN (5521) port with the accessory car charging cable, the quantity cells of the display screen will flash in turn and display the charging power.
2. When fully charged, all quantity cells will remain always on.



* Use car charger cable to connect to the DC1-IN (5521) port for charging, support 12~24V wide voltage input and up to 100W charging. (It is recommended to start the car when in use, so as not to cause the car to be unable to start due to battery loss).

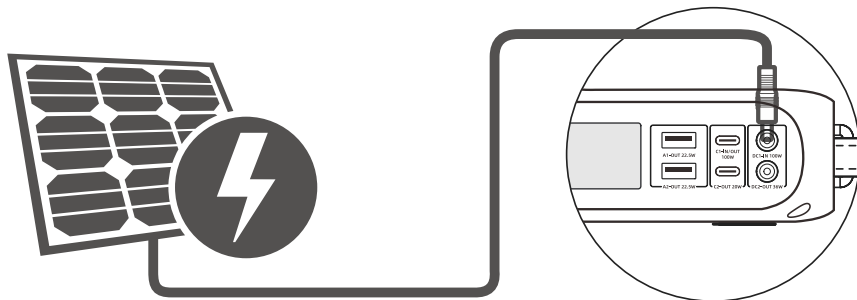


Charging with solar panels

1. Select the officially recommended supporting solar panel, connect the DC1-IN (5521) interface with the charging cable, the quantity cells of the display screen will flash in turn and display the charging power.
2. When fully charged, all quantity cells will remain always on.
3. Please allow the solar panel get as much direct sunlight as possible when charging.



* Use solar panel charging cable to connect DC1-IN (5521) port for charging the product, provided with MPPT function, support 12~24V wide voltage input, and support 100W charging at maximum. Charging a product with unqualified solar panels may cause serious damage to the device.



Common Problems

Q. What appliances can P300W power?

A. The AC output ports of P300W can provide power/charge for devices with a running power not exceeding 300W. If the power requirement exceeds this limit, P300W will automatically shut down. Please check the specifications of the devices you intend to use before purchasing. The device supports simultaneous powering of all interfaces, but the total wattage of the connected devices should not exceed 480W. If the power requirement exceeds this limit, P300W will automatically shut down.

Q. How long can P300W power my appliances?

A. Considering different loads have different output characteristics and the efficiency of energy transfer between the power source and the device may vary, the estimated power supply duration can be roughly calculated using the formula "Power Supply Time = 256Wh * 0.85~0.9 / Running Power of the Appliance". The actual usage may vary depending on specific circumstances. (0.85~0.9 represents the conversion efficiency, which varies depending on the type of load.)

Q. How long does it take to fully charge P300W?

A. This product supports two charging methods: USB-C or DC port. For USB-C port: You can use a PD charging kit with USB-C port, supporting up to 100W charging, to fully charge it in about 3~4 hours. For DC port: Using the provided 65W power adapter takes approximately 4~5 hours to fully charge. Using a car charger/cigarette lighter takes about 3~4 hours to fully charge. Using a 100W solar panel takes about 5~6 hours to fully charge.

Q. Why does the product lose battery even when no load is connected?

A. The screen, AC inverter, and DC output board of the product consume a certain amount of energy in standby mode. Therefore, please long-press the power button to completely turn off the device when it is not needed.

Q. Which type of solar panel should I choose for my P300W?

A. You can use a solar panel with a DC 5521 charging connector and a total open-circuit voltage range of 12~24V in conjunction with the device for charging. For your safety, we recommend using it with 1X Egrettech PSP 100W.

Qualified Certificate

