

USER'S MANUAL



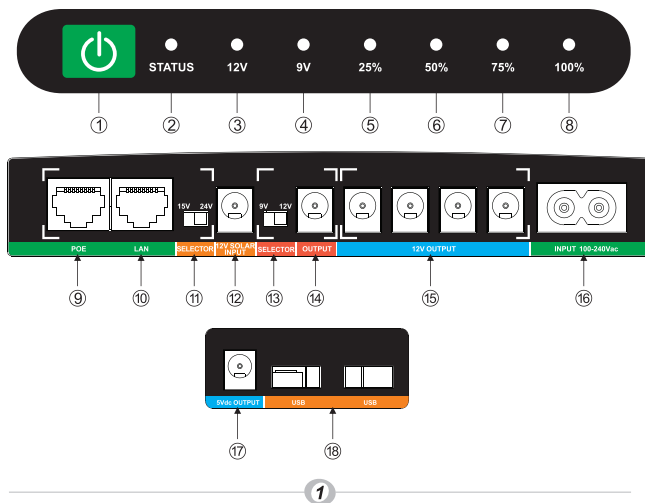
Thank you for choosing the EC Plus UPS.
Before operating this unit, please read the USER'S MANUAL
carefully to ensure the best possible performance is obtained.

1 . Package

- 1) EC Plus UPS.
- 2) AC power cable
- 3) DC output cables (2 ends)
- 4) User's manual
- 5) Warranty card

2 . Instructions of the components

- | | |
|---|--------------------------------------|
| 1) ON/OFF Switch | 10) LAN Ethernet interface LAN |
| 2) Work status indicator | 11) Output Voltage Selector(15V/24V) |
| 3) 12Vdc LED Indicator | 12) 12Vdc solar input |
| 4) 9Vdc LED Indicator | 13) Output Voltage Selector(9V/12V) |
| 5) 25% BAT capacity LED Indicator | 14) Output socket(9V/12V) |
| 6) 50% BAT capacity LED Indicator | 15) Output socket |
| 7) 75% BAT capacity LED Indicator | 16) AC input socket |
| 8) 100% BAT capacity LED Indicator | 17) Output socket 5V |
| 9) Ethernet output interface
(POE output: 15V/24V) | 18) USB (5Vdc) output |



3 . Features

- 1) High capacity lithium batteries, provides long backup to the loads.
- 2) High compatibility, suitable for most digital products in the market.
- 3) USB output (5V), can supply charging for digital products like mobile phone, PDA, PSP, IPOD, MP4... etc.
- 4) Power Over Ethernet(POE) can transmit the data and power at the same time to simplify wire set.
- 5) Intelligent circuit design with over-charging, over-discharging and short circuit protections.
- 6) Built-in adapter allows wide AC voltage range (85~265Vac).

4 . High compatibilities



5 . How to use



1. In order to prevent over-discharging of the lithium batteries, please restart the UPS when AC is available after low battery cutoff.
2. Before connecting the loads to the UPS, it's a must to check their nominal working voltage, current and polarity which you can find on their original adapters.
3. The output power of this model is controlled by total power capacity. The total power of the loads which connect to all the ports cannot exceed the maximum output power. Otherwise, If the total power of the loads is exceed the maximum power, the light of status will be in yellow flashing, after 2~3 seconds, all the output ports will be closed, and all the lights of power indicator will be flashing. In this situation, please remove the exceed loads.
4. Press and hold the power key for 2-3 seconds to boot the UPS. If the output voltage indicator light is green, this DC port is outputting voltage, and the output voltage can be selected between 9V and 12V by moving the DC voltage switch. The output voltage of POE port can be selected between 15V and 24V by moving the POE voltage switch. Connect to the AC, the status light become green for charging, 100% means it's full charge. In the process of charging, the power indicator light indicates the capacity of the battery by 25%, 50%, 75% and 100% increasingly. When AC is unusual, the status light become red for battery backup status, and the power indicator light will turn off one by one from 100%, 75%, 50% to 25%. When the light of 25% is flashing, it means that the battery power is very low, then press and hold the power key for 2-3 seconds to turn off the UPS and stop output voltage.
5. Plug-and-play USB provides stable charging to the digital products with their original charging cables.
6. UPS shut down automatically when it is low battery, it will restart with output power when AC recover.
7. If it's not used for long period, please keep full charge and keep it in a cool place. If the storage time is too long to turn on, please plug in the grid for charging till the status light become green. It's recommend to charge battery once per month.
8. Built-in solar module has constant current and voltage control, it can charge lithium batteries on startup or shutdown state when connected with solar panels, and supply power to the facilities when the UPS is ON..

6 . Specifications

Model	EC Plus UPS		
Rated working voltage	100~240Vac/50-60Hz		
Output power(Max.)	60W		
Output	USB interface	DC interface	POE interface
Output voltage(selectable)	5Vdc	5Vdc 9/12Vdc 12VdcX4	15Vdc / 24Vdc
Output polarity	standard	— — — — —	+4,5pins -7,8pins
Output power & current (in common)	2.0A / 10W	2.0A/24W 5.0A/60W	1.0A/(15.8V16W)ort(24V24W)
Solar input voltage range	12~25Vdc		
Solar input polarity	— — — — —		
QTY. & capacity of battery	2200mAh*8		
Unit dimension(mm)	252*146*45		
Net weight(kg)	0.94		

* Products specifications are subject to change without notice.

Warning

1. Do check the working voltage, current and polarity of the loads before connecting them to the UPS, then choose the corresponding voltage.
2. Please charge fully before initial use.
3. Dropping, hitting, disassembling and repairing privately are forbidden.
4. Do not put the UPS into water or make it wet.
5. Do not dispose of the UPS in fire or heating it.
6. Do not use the UPS in any flammable environments.
7. Do not put the UPS in any places where Children can reach.



Please do not arbitrarily disassemble, squeeze, short circuit the batteries or dispose the batteries into water or fire. Do not put the UPS in any places where is over 60°C (140°F).