

USER MANUAL

**Rate/ 860P**

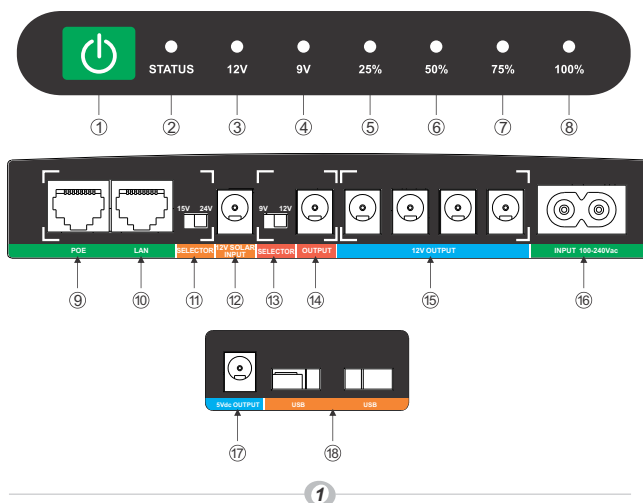
{ Thank you for choosing the OMNIPOWER RATEL MICRO UPS. Before operating this unit, please read the USER MANUAL carefully to ensure the best possible performance is obtained. }

1 . OMNIPOWER RATEL MICRO UPS package

- 1) OmniPower Ratel 860P
- 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) 5mm |
| 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 provide long backup to your loads.
2. High compatibility, the Ratel is suitable for most digital products on the market.
3. USB output (5V) can supply charge for devices such as mobile phone, PSP, iPod, MP4, etc.
4. Power Over Ethernet (POE) can transmit data and power simultaneously, thus simplifying the wiring.
5. Intelligent circuit design with over-charge, over-discharge and short-circuit protection.
6. Built-in adapter allows wide AC voltage range (85 ~ 265Vac)
7. Built-in solar charger

4 . High compatibilities



5 . How to use





1. In order to prevent over-discharge of the lithium batteries, please restart the Ratel when AC power becomes available after low-battery cutoff.
2. Before connecting loads to the Ratel, it is essential that you check their nominal working voltage, current and polarity, which you will 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 of your model. If this does occur, the USB ports will be closed and the status light will flash yellow. If the total power of the loads still exceeds the maximum power rating after the USB ports are closed, all the output ports will be closed, and all power indicator lights will flash. In this situation, please remove excess loads.
4. Press and hold the power key for 2 to 3 seconds to boot up the Ratel. If the output voltage indicator is green, this DC port is outputting voltage, and one can select between 9V and 12V by sliding the DC voltage switch. After plugging the Ratel into the grid, the status light will turn green to indicate the battery is charging. 100% means the battery is fully charged. In the process of charging, the power indicator light indicates the capacity of the battery in 25% increments – 25%, 50%, 75% and 100%. When disconnected from the grid, the power indicator lights will indicate the decreasing capacity of the battery in 25% increments – 100%, 75%, 50% and 25%. When the indicator light at the 25% marks begins to flash, this means that battery power is very low. Press and hold the power key for 2 to 3 seconds to turn off the Ratel and stop output voltage.
5. The plug-and-play USB provides stable charging to digital products with their original cables.
6. The Ratel will shut down automatically when it reaches low battery status; it will restart with output power when the AC power is restored.
7. If the Ratel will not be used for extended periods, ensure that it is fully charged before storing in a cool, dry place. If the Ratel has been in storage too long, you will need to plug in grid power until the status light turns green. It is recommended that the Ratel battery is charged once per month.
8. The built-in solar module has constant current and voltage control; it can charge lithium batteries on startup or in shutdown state when connected to a solar panel, and will supply power to your loads when your UPS is on.



Please do not disassemble, squeeze or short circuit the batteries. Do not dispose of the batteries by means of fire or water. Do not place the Ratel in environments where temperature exceeds 60°C (140°F)



6 . Specifications

| | | | | | |
|------------------------------------|---|---|--|-------------------------|--------------------|
| Model | Ratel 860P | | | | |
| 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 <small>5mm socket</small> | 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)or(24V24W | |
| Solar input voltage range | 12~25Vdc Up to 50W | | | | |
| 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. Always check the working voltage, current and polarity of the loads before connecting them to the Ratel, then choose the corresponding voltage.
2. Charge device fully prior to initial use.
3. Damage caused by dropping, disassembling or attempting to repair the Ratel privately will render your warranty null and void.
4. Do not immerse the Ratel in water or allow it to get wet.
5. Do not dispose of any of the Ratel's components in fire.
6. Do not use the Ratel in flammable environments
7. Keep the Ratel out of reach of children and unauthorised persons.

