

# Mini UPS 不间断电源

UPS-5V-2A



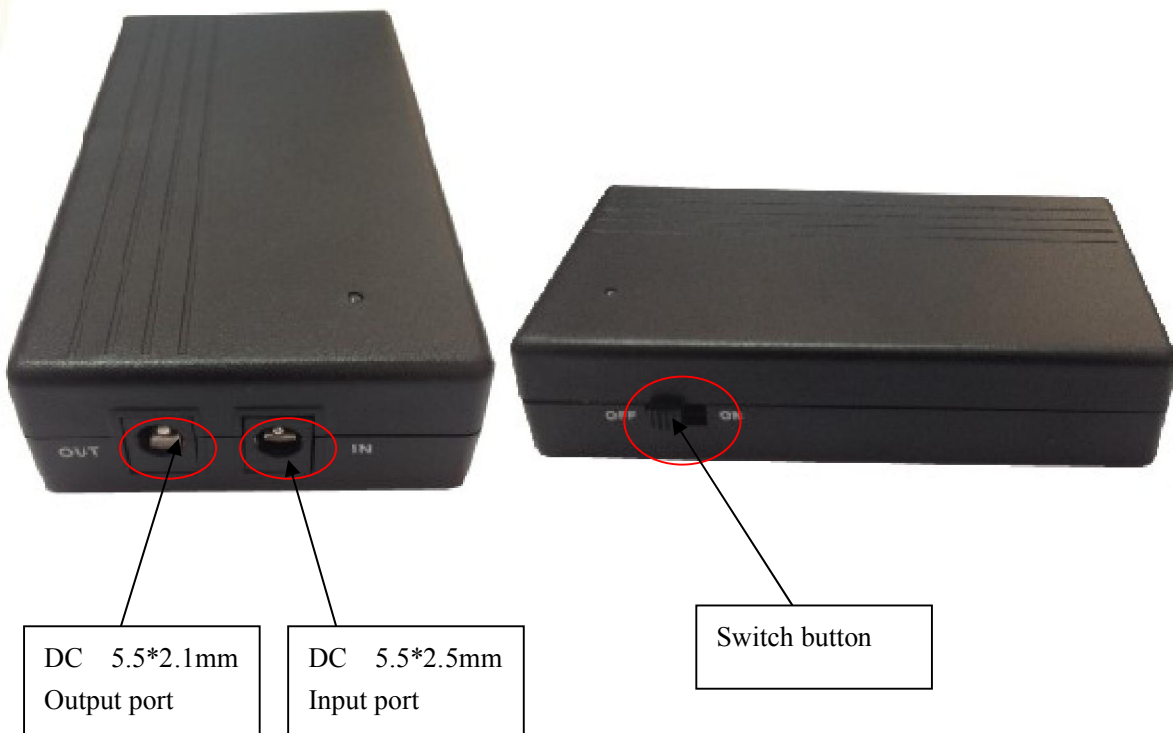
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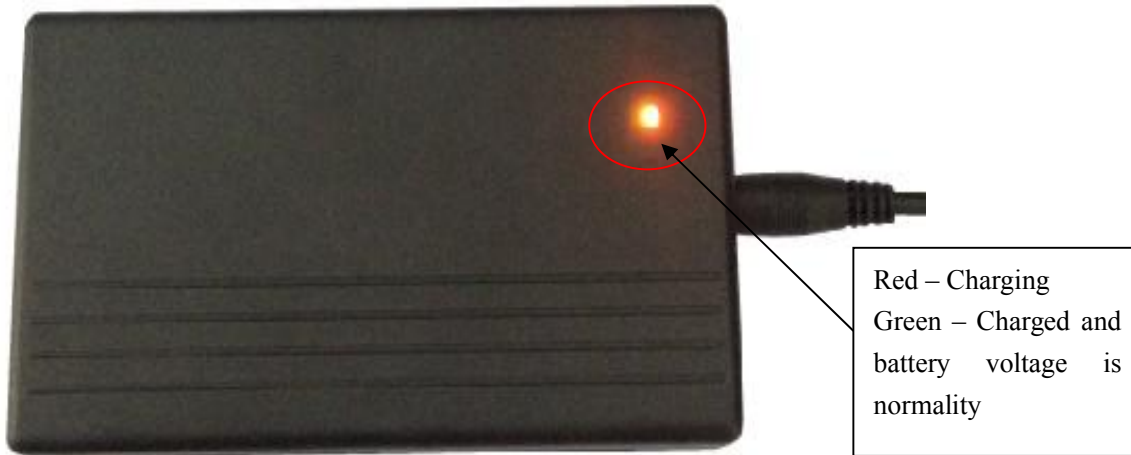
Mini UPS Product Specification Sheet

Mini UPS 不间断电源

## Mini UPS Description:

Mini UPS uninterruptible power supply is a standby energy storage power supply. Used safe and environmental lithium cells, credible and stable PCB, trickle/constant-current/ constant-voltage lithium battery charging BMS, Created by high performance and efficiency DC-DC, boosting and switching circuit. This mini UPS with perfect over-charged, over-discharged, over-current and short-circuit protection.





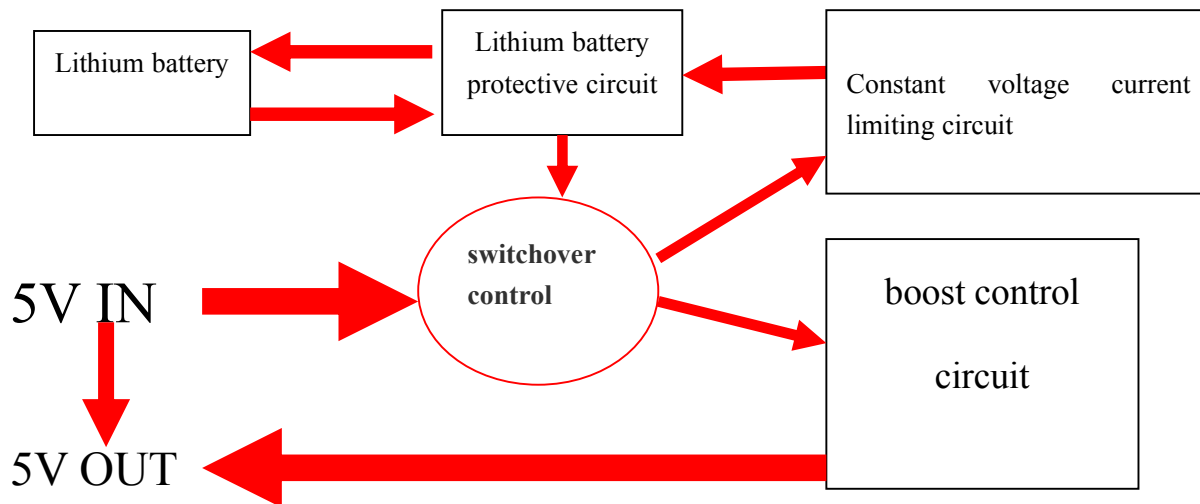
### **Mini UPS Application:**

Smart 5V mini ups widely use for fingerprint attendance machine, Fire safety system, security monitoring system, wireless camera, CCTV camera ,personal treatment system,Door security system, personal data assistant, emergency lighting, Alarm system, personal communication systems, radio, digital cameras, camcorde rs, video camera,Bluetooth devices, CD players, MD players, portable DVD, MP 3 players, smart cards.

### **Mini UPS Feature:**

- Rated Capacity: 4000mAh
- Input Voltage:  $5V \pm 5\%$
- Input Current:  $\leq 3000mA$
- Output Voltage:  $5V \pm 2\%$
- Output Current:  $\leq 2000mA$
- Working Temperature:  $-20^{\circ}C \sim 85^{\circ}C$
- Net Weight: 150g
- Volume: 111\*60\*26mm

## Function Diagram



Remark: When the mini UPS switchover, there will have 3~6ms time for the voltage will drop and be less than 4.5V.

## Electrical characteristics:

| No. | Item                                | Technical Requirements | Unit | Remark                     |
|-----|-------------------------------------|------------------------|------|----------------------------|
| 1   | Rated input voltage                 | $5 \pm 5\%$            | V    |                            |
| 2   | Input voltage                       | $5 \pm 5\%$            | V    |                            |
| 3   | Charging current                    | 300                    | mA   |                            |
| 4   | Transfer efficiency                 | $\geq 85\%$            |      |                            |
| 5   | Max output current                  | $\leq 2$               | A    |                            |
| 6   | No-load voltage range               | $5 \pm 2\%$            | V    |                            |
| 7   | Output current range                | $\leq 2$               | A    |                            |
| 8   | Max output voltage range            | $5 \pm 2\%$            | V    |                            |
| 9   | Noise                               | $\leq 50$              | dB   |                            |
| 10  | Over-discharged protection(battery) | 2.5                    | V    | Over-discharged release 3V |
| 11  | Over-charged protection(battery)    | 4.25                   | V    | Over-charged release 4.05V |
| 12  | With load current(battery)          | $\geq 3$               | A    |                            |
| 13  | Output over-discharged protection   | $\geq 2.5$             | A    | Locked                     |

## Mini UPS Working Condition:

- Charging:  $0^{\circ}\text{C} \sim 55^{\circ}\text{C}$
- Discharging:  $-20^{\circ}\text{C} \sim 85^{\circ}\text{C}$
- Storage 30days:  $-20^{\circ}\text{C} \sim 45^{\circ}\text{C}$
- Storage 90days:  $-20^{\circ}\text{C} \sim 35^{\circ}\text{C}$
- Should store the mini UPS under the pleasantly cool and arid place if long time don't use it. Otherwise poor performance may occur due to the poor connection with the equipment;

## **Attention:**

- Do not expose the mini UPS in the rain or snow;
- Do not use or leave the mini UPS near a heat source as fire or heater;
- Do not connect the DC cable in wrong way;
- Do not use the wrong voltage adapter;
- Equipment voltage must matching with the mini UPS voltage
- If long time did not use this mini UPS, suggest 3~5months to charge it once

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