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## Features



- DC uninterruptible power supply, parallel connection to DC bus
- Convection cooled
- **Din Rail/ Screw Mounting Dual Purpose**
- Easy mounting (one-step installation)
- UPS Design
- Battery Discharge Protection with Low voltage
- 3A Charge
- No need to replace internal fuse after short protection
- Battery Reverse Polarity Protection
- DC Bus, Battery Status LED, Relay Output Contact

DIMENSIONS: 100(H)\*110(D)\*60(W)mm  
WEIGHTS: 400g

## Detail specifications

Model	Lead acid battery	External Power Supply	Battery low voltage protection	Max. battery output current	Battery output voltage
UPS30-24	24V	27.6V	20.5V	30A	20.5~27.6V

Model	Li-ion battery	External Power Supply	Battery low voltage protection	Max. battery output current	Battery output voltage
UPS30-24L	24V (7 Cells)	24V	20.5V	30A	20.5~24V

## LED, Relay and Battery Signal Instrutions

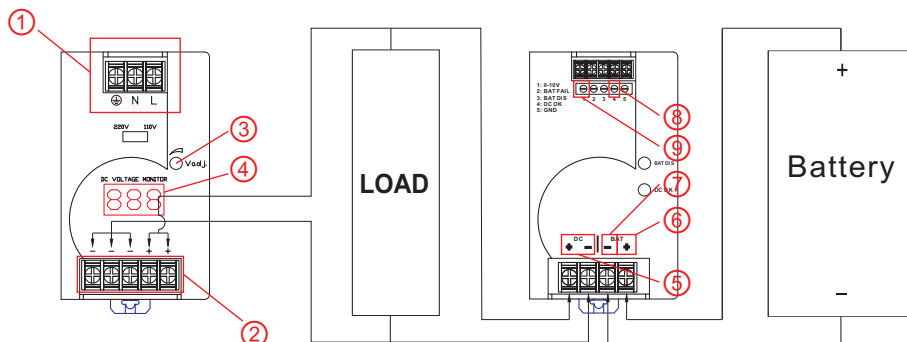
- DC Power Line OK: Relay is short circuit, green LED is on when DC voltage is 20.5V~27.6V.
- Battery Failure: Battery fails, relay is short circuit when battery voltage is below 20.5V.
- Battery Discharge: Relay is short circuit, blue LED is on when battery charging current is greater than 2A.
- Battery Signal: Battery signal is 10V when battery voltage is 27.6V; Battery signal is 0V when battery voltage is 0V.
- When powered by battery and the current is greater than 2A, the buzzer will alarm.
- Maximum relay contact current is 1A (30V).

## Application Circuit 1

Provide backup after AC failure.

REIGN POWER'S SWITCHING POWER SUPPLY

REIGN POWER'S UPS SERIES



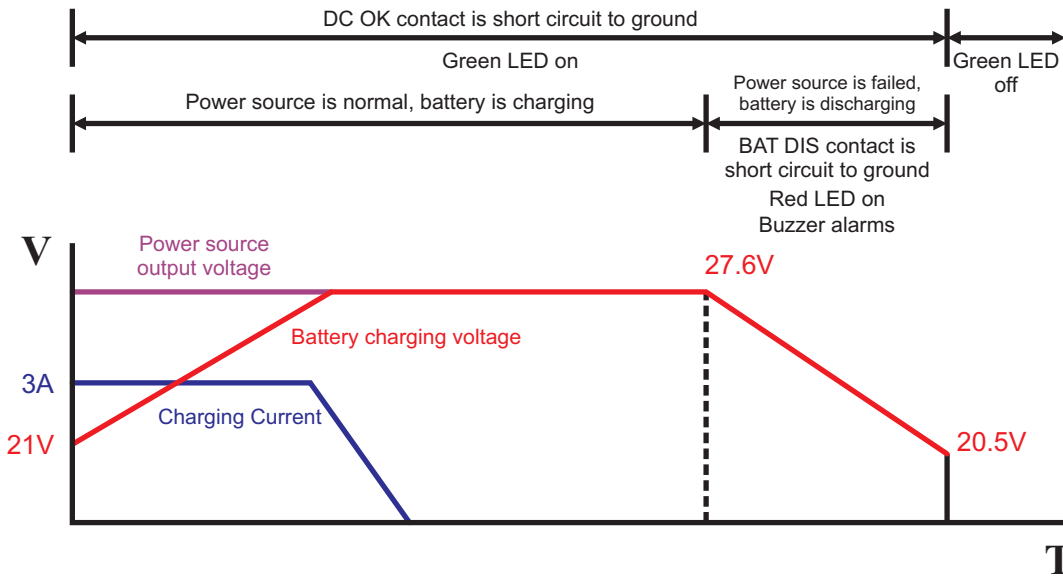
No.	Description
①	100-240VAC input
②	DC output
③	Output voltage control
④	Output voltage display
⑤	DC input
⑥	Battery positive terminal
⑦	Battery negative terminal
⑧	Relay terminal
⑨	Battery Proportional Signal

Reign Power reserve the right to change specifications at any time without notice.

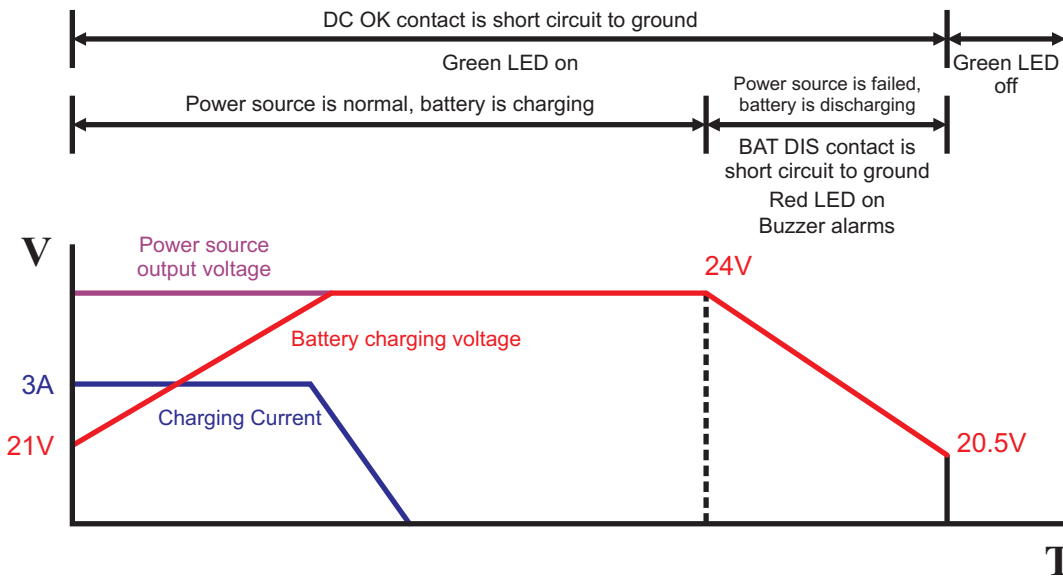


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## Lead Acid Battery Charging and Discharging Curve



## Li-ion Battery Charging and Discharging Curve



### CE Standards

EN 55032, EN 55035,  
 EN 61000-3-2, EN 61000-3-3,  
 EN 61000-4-2, EN 61000-4-3,  
 EN 61000-4-4, EN 61000-4-5,  
 EN 61000-4-6, EN 61000-4-8,  
 EN 61000-4-11

### Safety Standards

UL 62368 Meet  
 CE Marking

### Environments

**Operating Temperature** -15 ~ 50°C, Ambient  
**Operating Humidity** 20 ~ 95% RH, No Condensing  
**Storage Temperature** -20 ~ 85°C, Ambient  
**Vibration** 2G, 10~500Hz, 3 axes

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WEB : <http://www.switching-powers.com>  
 E-mail : [rp21003f@ms7.hinet.net](mailto:rp21003f@ms7.hinet.net)

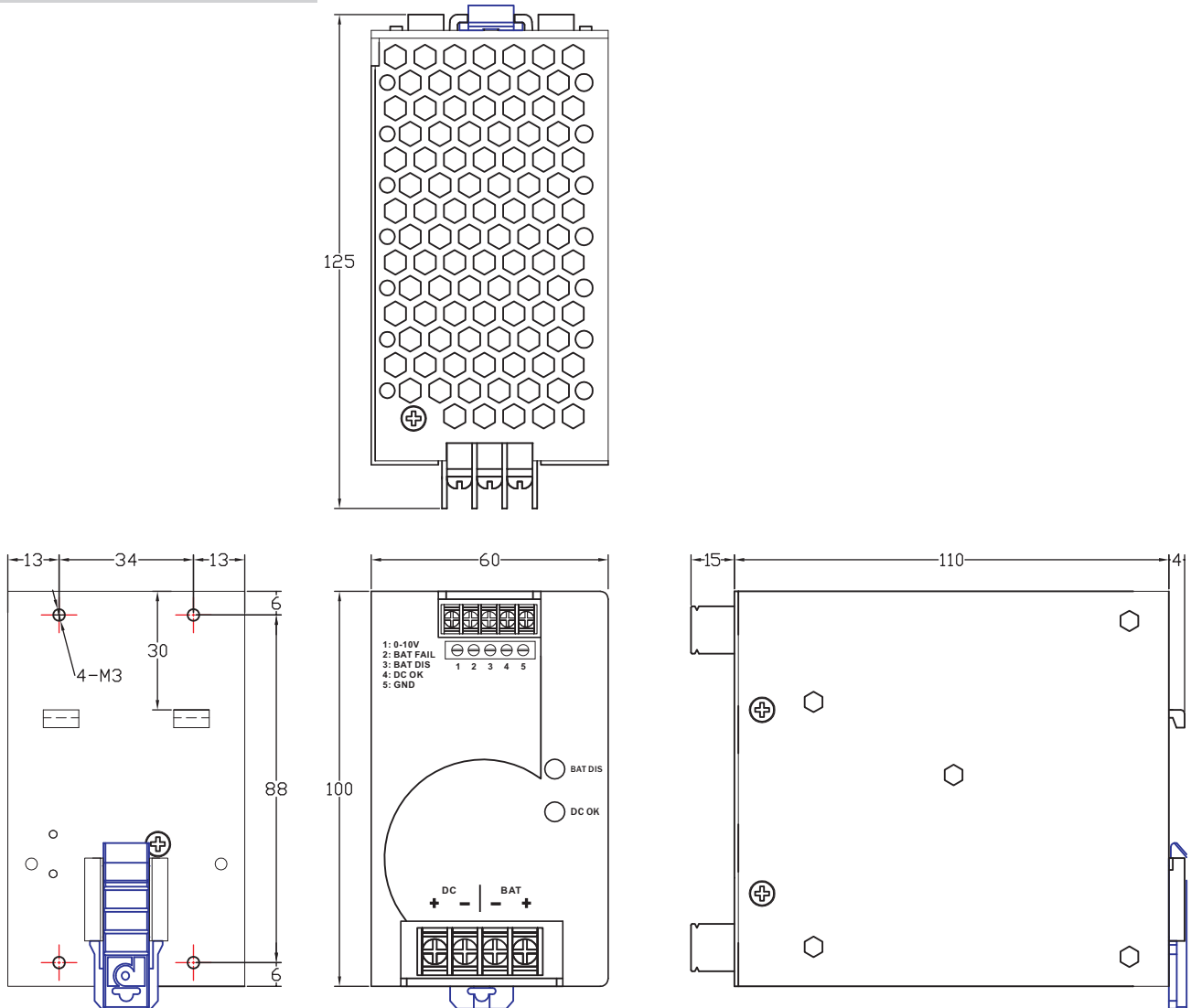
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## Mechanical Details



## Panel Designation

**CASE NO. : CS060DR**  
**UNIT : mm**  
**DIMENSION : 100(H)\*110(D)\*60(W)**  
**MATERIAL : ALUMINUM**  
**COLOR : ORIGINAL ALUMINUM**

Symbol	Description
DC+	DC Positive Input Terminal
DC-	DC Negative Input Terminal
BAT+	Battery Positive Input Terminal
BAT-	Battery Negative Input Terminal
0~10V	Battery Proportional Signal
BAT FAIL	Battery Failure Relay Terminal
BAT DIS	Battery Discharge Relay Terminal
DC OK	DC Bus OK Relay Terminal
GND	Ground Terminal

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