



## Features:

- Universal AC input/Full range
- Small volume, low weight, high efficiency
- Protections: Short circuit / Overload
- Indicator for power on/charge/normal(LED)
- 100% full load burn-in test
- Battery protection at low voltage
- 2 Years warranty



## SPECIFICATION

Dimension: 111 x 78 x 36mm

| Model        |                           | SC-35-12                                                                                                                                  |           | SC-35-24         |           |
|--------------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------|-----------|
|              | DC voltage                | CH1:13.8V                                                                                                                                 | CH2:13.4V | CH1:27.6V        | CH2:26.5V |
|              | Voltage tolerance         | ± 2%                                                                                                                                      | -----     | ± 1%             | -----     |
|              | Rated current             | 2.0A                                                                                                                                      | 0.5A      | 1.0A             | 0.3A      |
| Output       | Current range             | 0 ~ 2.0A                                                                                                                                  | -----     | 0 ~ 1.0A         | -----     |
|              | Rated power               | 34.3W                                                                                                                                     |           | 35.6W            |           |
|              | Ripple & noise            | 120mVp-p                                                                                                                                  | -----     | 120mVp-p         | -----     |
|              | DC voltage ADJ. range     | CH1:11.3 ~ 14.9V                                                                                                                          |           | CH1:21.3 ~ 29.8V |           |
|              | Setup, rise, hold up time | 800ms,50ms,80ms/230VAC. 1600ms,50ms,16ms/115VAC.                                                                                          |           |                  |           |
|              | Voltage range             | 90 ~ 264VAC or 127 ~ 370VDC                                                                                                               |           |                  |           |
|              | AC current                | 0.9A/115VAC 0.45A/230VAC                                                                                                                  |           |                  |           |
| Input        | Efficiency                | 81%                                                                                                                                       |           | 83%              |           |
|              | Inrush current            | cold-start current 25A/115VAC 45A/230VAC                                                                                                  |           |                  |           |
|              | leakage current           | < 1mA/240VAC                                                                                                                              |           |                  |           |
|              | over load                 | rated output power 110% ~ 150% start over load protection                                                                                 |           |                  |           |
| Protection   |                           | protection type: AC charging mode :hiccup mode, auto-recovery after fault condition is removed                                            |           |                  |           |
|              | battery protection        | 9.5 ~ 11V                                                                                                                                 |           | 20 ~ 22V         |           |
|              | at low voltage            | protection mode :cutoff output                                                                                                            |           |                  |           |
| Function     |                           | long-term online floating charge to battery,high charging efficiency,battery can saturate to more than 90%                                |           |                  |           |
|              | UPS introduction          | auto-stop charging when it's full,prevent over charging. Effectively extend battery life                                                  |           |                  |           |
|              |                           | AC/battery auto switch,no switch time.no need human guard                                                                                 |           |                  |           |
|              |                           | cold-start ,when there is no AC input ,can use battery start UPS.Meet the user's emergency needs                                          |           |                  |           |
| Environment  | Working temp, humidity    | -10℃ ~ +60℃:20% ~ 90%RH(Please refer to “derating curve”                                                                                  |           |                  |           |
|              | Storage temp, humidity    | -20℃ ~ +85℃:10% ~ 95%RH Non-condensing                                                                                                    |           |                  |           |
|              | Withstand-vibration       | 10 ~ 500Hz, 2G 10min./1Cycle, Period for 60min, Each axes                                                                                 |           |                  |           |
| Safety       | Withstand voltage         | I/P-O/P: 1.5KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC                                                                                          |           |                  |           |
|              | Isolation resistance      | I/P-O/P: I/P-FG,O/P-FG: 100M Ohms/500VDC                                                                                                  |           |                  |           |
| Fit standard | Safety standard           | Compliance to UL60950-1, EN60950-1:2006                                                                                                   |           |                  |           |
|              | EMC Standard              | Compliance to EN55022, CLASSB, EN61000-6-3:2001, EN55022:2006+A1:2007<br>EN 61000-6-1:2001, EN 55024:1998+A1:2000+A2:2003,EN 61000-4-2/-3 |           |                  |           |
| Others       | Weight                    | 0.3kg 129*97*38mm ( L*W*H )                                                                                                               |           |                  |           |
|              | Packing                   | 0.3kg/50pcs/16kg                                                                                                                          |           |                  |           |

## Mechanical specification

Unit:mm

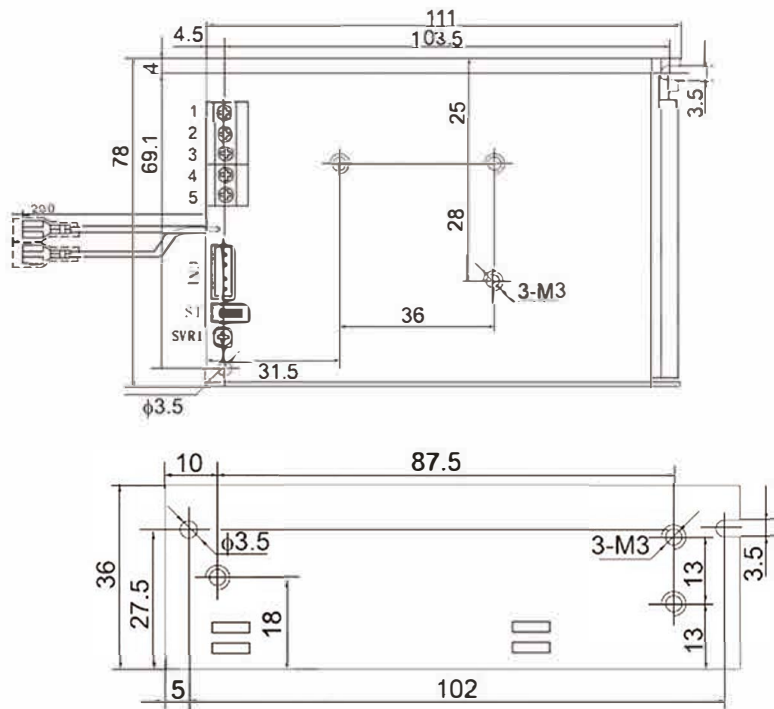
### PIN assignment

| Pin NO. | Assignment |
|---------|------------|
| 1       | AC/L       |
| 2       | AC/N       |
| 3       | FG $\pm$   |
| 4       | DC -V      |
| 5       | DC +V      |

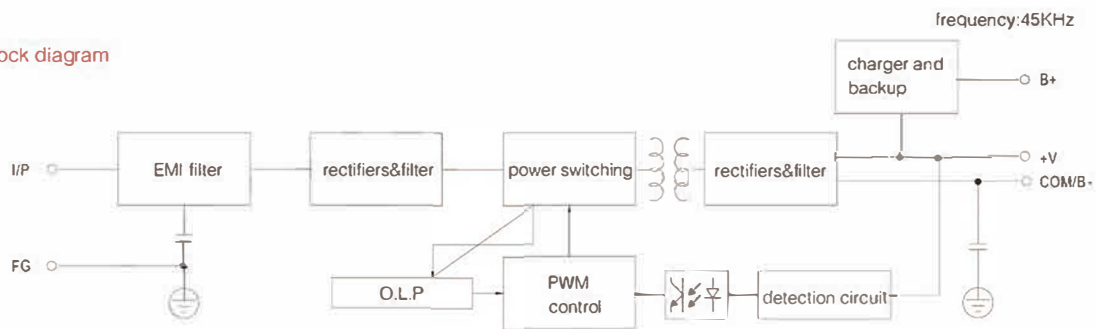
### circumscribed indicator explain

| indicator color | explain                  |
|-----------------|--------------------------|
| green           | DC OUTPUT indicator      |
| red             | AC INPUT indicator       |
| white           | battery charge indicator |

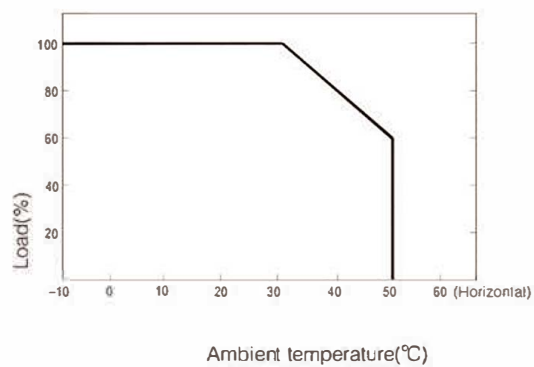
cold-start ,when there is no AC input ,can use battery start UPS.Meet the user's emergency needs



## Block diagram



## Derating curve



## Static characteristic

