

SPECIFICATION



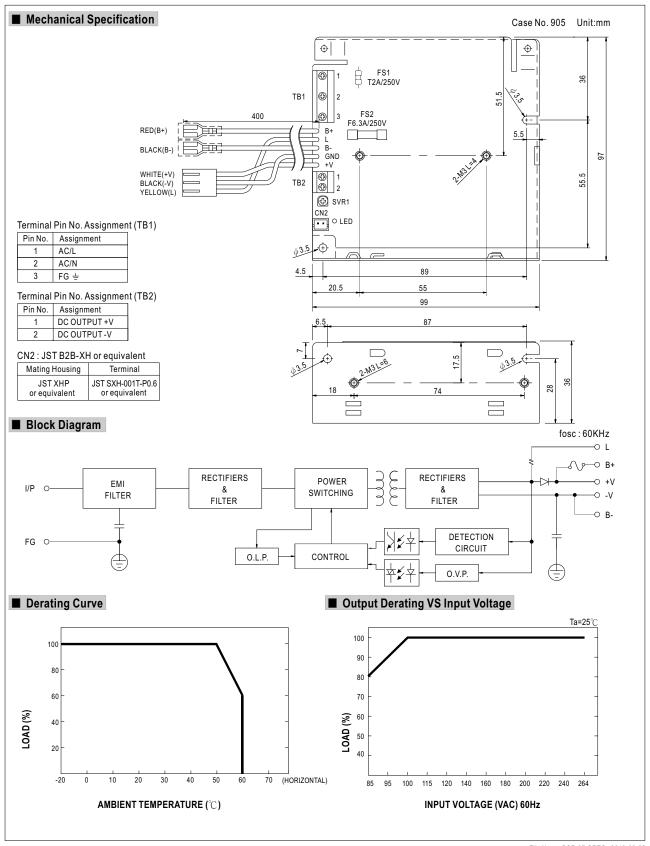
■ Features :

- · Universal AC input/Full range
- Protections: Short circuit / Overload / Over voltage / Battery polarity protections (by fuse)
- · Cooling by free air convection
- · LED indicator for power on
- No load power consumption <0.75W
- 100% full load burn-in test
- · 2 years warranty

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MODEL SCP-35-12 SCP-35-24 DC VOLTAGE 13.8V 27.6V RATED CURRENT 2.6A 1.4A **CURRENT RANGE** 0 ~ 2.6A 0 ~ 1.4A PEAK 5S Note.6 3.1A 1.7A RATED POWER 35.9W 38.6W RIPPLE & NOISE (max.) Note.2 | 120mVp-p 200mVp-p OUTPUT VOLTAGE ADJ. RANGE +15.-5% +15.-5% VOLTAGE TOLERANCE Note.3 ±2.0% ±1.0% LINE REGULATION Note.4 ±1.0% ±1.0% LOAD REGULATION Note.5 ±2.0% ±1.0% 1200ms, 30ms/115VAC at full load SETUP, RISE TIME 500ms, 30ms/230VAC HOLD UP TIME (Typ.) 50ms/230VAC 16ms/115VAC at full load 85 ~ 264VAC 120 ~ 370VDC **VOLTAGE RANGE** FREQUENCY RANGE 47 ~ 63Hz 83% 86% EFFICIENCY (Typ.) INPUT AC CURRENT (Typ.) 0.75A/115VAC 0.5 A/230VAC INRUSH CURRENT (Typ.) COLD START 45A LEAKAGE CURRENT <2mA / 240VAC TEMP. COMPENSATION By NTC (not provide with the power supply) FUNCTION OUTPUT VOLTAGE SENSOR L=output voltage +0.7 V 3.1 ~ 4.2A rated output power 1.7 ~ 2.3A rated output power OVERLOAD Protection type: Hiccup mode, recovers automatically after fault condition is removed **PROTECTION** 16.6 ~ 19.3V 33.1 ~ 38.5V OVER VOLTAGE Protection type: Shut down o/p voltage, re-power on to recover -20 ~ +60°C (Refer to output load derating curve) WORKING TEMP. 20 ~ 90% RH non-condensing WORKING HUMIDITY -40 ~ +85°C, 10 ~ 95% RH **ENVIRONMENT** STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT ±0.03%/°C (0 ~ 45°C) VIBRATION 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes SAFETY STANDARDS UL60950-1, CB(IEC60950-1), CCC GB4943 approved WITHSTAND VOLTAGE I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC **SAFETY & ISOLATION RESISTANCE** I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25° C / 70% RH **EMC** Compliance to EN55022 (CISPR22) Class B **EMI CONDUCTION & RADIATION** (Note 6) HARMONIC CURRENT Compliance to EN61000-3-2,-3 Compliance to EN61000-4-2, 3, 4, 5, 6, 8,11, ENV50204, EN55024, EN61000-6-1, light industry level, criteria A **EMS IMMUNITY** MTBF 523.3Khrs min. MIL-HDBK-217F (25°C) **OTHERS DIMENSION** 99*97*36mm (L*W*H) 0.37Kg; 45pcs/17.7Kg/1CUFT **PACKING** 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature. NOTE 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance: includes set up tolerance, line regulation and load regulation. 4. Line regulation is measured from low line to high line at rated load. 5. Load regulation is measured from 0% to 100% rated load. 6. 33% Duty cycle maximum within every 15 seconds. Average output power should not exceed the rated power. 7. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.







■ Function Description

1.B+,B-

Connect the battery: B+ connected to battery positive.
B- connected to battery negative.

21

Output voltage detection, detection output voltage or battery voltage (if battery is used). L=output voltage $^{+0.7}_{-}$ V.

3.+V,-V

Output voltage. Can't connect the battery.

4 CN2

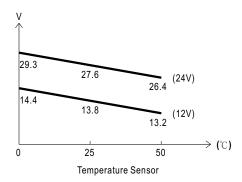
Temperature sensor can be connected to the unit to allow temperature compensation of the charging voltage.

If the sensor is not used, the charger still works normally.

Reference example:

Connect 100K Ω Thermistor (THINKING) on NTC. Adjust VR to cause the output voltage is normally voltage. The output voltage will change along with the temperature change.

| | Ta :0°C | Ta :25°℃ | Ta :50°C |
|-----------|-----------|-----------|-----------|
| SCP-35-12 | 14.4±0.2V | 13.8±0.1V | 13.2±0.2V |
| SCP-35-24 | 29.3±0.4V | 27.6±0.2V | 26.4±0.4V |



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