



SCP-75 series

75W Single Output Switching Power Supply



■ 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



SPECIFICATION

MODEL	740-5001	740-5005
OUTPUT	DC VOLTAGE	13.8V
	RATED CURRENT	5.4A
	CURRENT RANGE	0 ~ 5.4A
	PEAK 5S Note.6	6.5A
	RATED POWER	74.5W
	RIPPLE & NOISE (max.) Note.2	120mVp-p
	VOLTAGE ADJ. RANGE	+15,-5%
	VOLTAGE TOLERANCE Note.3	±2.0%
	LINE REGULATION Note.4	±1.0%
	LOAD REGULATION Note.5	±2.0%
INPUT	SETUP, RISE TIME	500ms, 30ms/230VAC 1200ms, 30ms/115VAC at full load
	HOLD UP TIME (Typ.)	50ms/230VAC 16ms/115VAC at full load
	VOLTAGE RANGE	85 ~ 264VAC 120 ~ 370VDC
	FREQUENCY RANGE	47 ~ 63Hz
	EFFICIENCY (Typ.)	81% 85%
	AC CURRENT (Typ.)	1.5A/115VAC 0.9A/230VAC
	INRUSH CURRENT (Typ.)	COLD START 45A
	LEAKAGE CURRENT	<2mA / 240VAC
	TEMP. COMPENSATION	By NTC (not provide with the power supply)
	OUTPUT VOLTAGE SENSOR	L=output voltage $\pm 0.7\%$
PROTECTION	OVERLOAD	6.5 ~ 8.7A rated output power 3.2 ~ 4.3A rated output power Protection type: Hiccup mode, recovers automatically after fault condition is removed
	OVER VOLTAGE	16.6 ~ 19.3V 33.1 ~ 38.6V Protection type: Shut down o/p voltage, re-power on to recover
ENVIRONMENT	WORKING TEMP.	-20 ~ +60°C (Refer to output load derating curve)
	WORKING HUMIDITY	20 ~ 90% RH non-condensing
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 45°C)
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes
SAFETY & EMC (Note 6)	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
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH
	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B
	HARMONIC CURRENT	Compliance to EN61000-3-2,3
OTHERS	EMS IMMUNITY	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, EN50204, EN55024, EN61000-6-1, light industry level, criteria A
	MTBF	461.2K hrs min. MIL-HDBK-217F (25°C)
	DIMENSION	159*97*38mm (L*W*H)
NOTE	PACKING	0.5Kg; 30pcs/16Kg/1CUFT
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 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.	

File Name:SCP-75-SPEC 2010-02-09

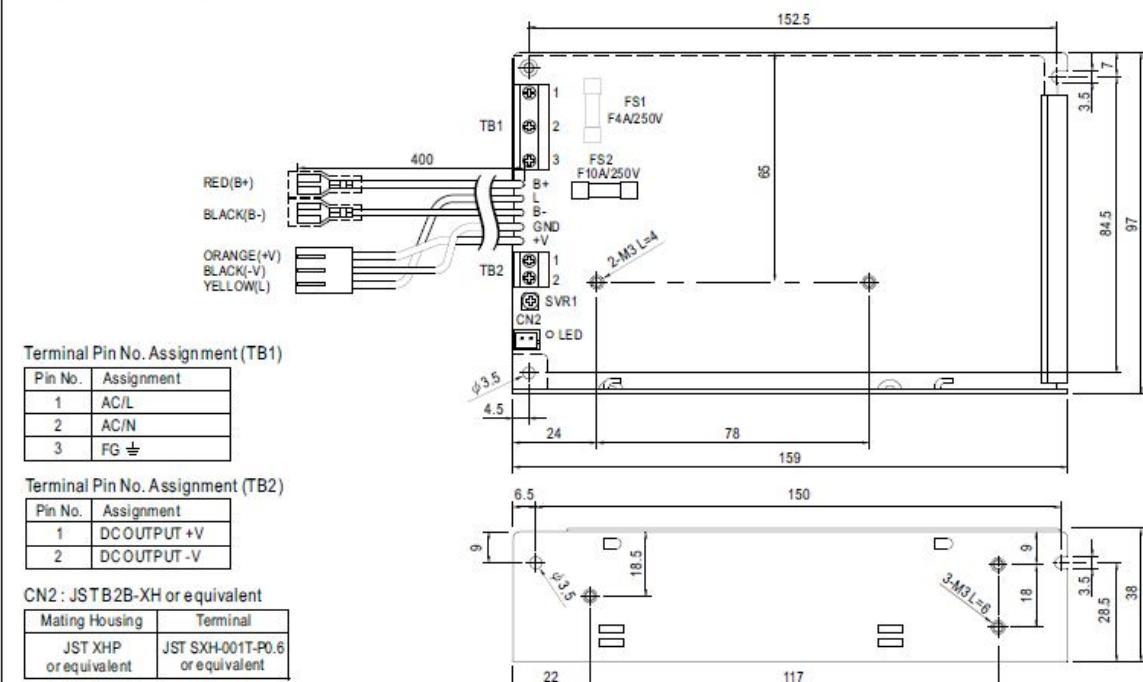


SCP-75 series

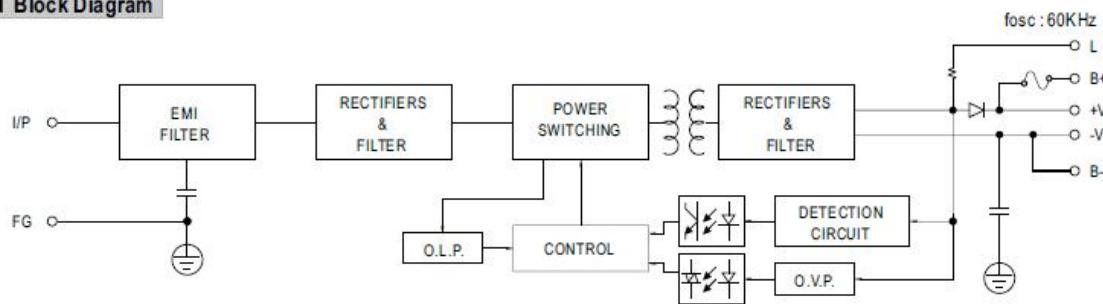
75W Single Output Switching Power Supply

■ Mechanical Specification

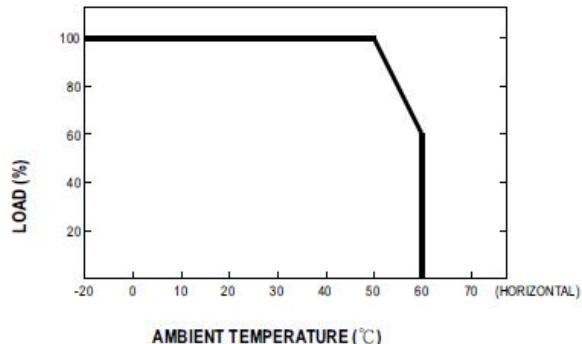
Case No. 901 Unit:mm



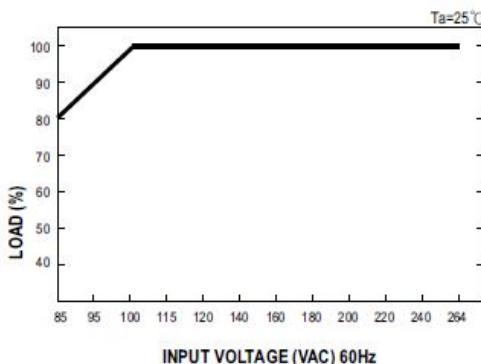
■ Block Diagram



■ Derating Curve



■ Output Derating VS Input Voltage



File Name:SCP-75-SPEC 2010-02-09



SCP-75 series

75W Single Output Switching Power Supply

■ Function Description

1.B+,B-

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

2.L

Output voltage detection, detection output voltage or battery voltage (if battery is used).
L=output voltage $^{+0.7}_{-0}$ V.

3.+V,-V

Output voltage. Can't connect the battery.

4.CN2

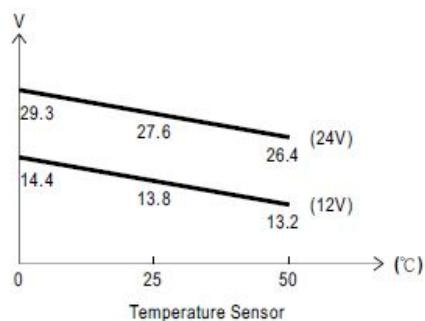
Temperature sensor can be connected to the unit to allow temperature compensation of the charging voltage.

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°C	Ta :50°C
SCP-75-12	14.4 \pm 0.2V	13.8 \pm 0.1V	13.2 \pm 0.2V
SCP-75-24	29.3 \pm 0.4V	27.6 \pm 0.2V	26.4 \pm 0.4V



File Name:SCP-75-SPEC 2010-02-09