



■ Features :

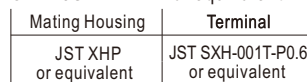
- Universal AC input/Full range
- Protections: Short circuit / Overload / Over voltage / Battery polarity protections (by fuse)
- Built-in temperature compensation function
- Output voltage detection signal
- Cooling by free air convection
- LED indicator for power on
- No load power consumption <0.75W
- Suitable for installation in metallic or non-metallic system enclosure
- 100% full load burn-in test
- 2 years warranty



SPECIFICATION

MODEL		SCP-75-12		SCP-75-24	
OUTPUT	DC VOLTAGE	13.8V		27.6V	
	RATED CURRENT	5.4A		2.7A	
	CURRENT RANGE	0 ~ 5.4A		0 ~ 2.7A	
	PEAK 5S Note.6	6.5A		3.2A	
	RATED POWER	74.5W		74.5W	
	RIPPLE & NOISE (max.) Note.2	120mVp-p		200mVp-p	
	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%	
	SETUP, RISE TIME	500ms, 30ms/230VAC 1200ms, 30ms/115VAC at full load			
HOLD UP TIME (Typ.)	50ms/230VAC 16ms/115VAC at full load				
INPUT	VOLTAGE RANGE	85 ~ 264VAC 120 ~ 370VDC			
	FREQUENCY RANGE	47 ~ 63Hz			
	EFFICIENCY (Typ.)	80%		84%	
	AC CURRENT (Typ.)	1.5A/115VAC 0.9A/230VAC			
	INRUSH CURRENT (Typ.)	COLD START 45A			
	LEAKAGE CURRENT	<2mA / 240VAC			
FUNCTION	TEMP. COMPENSATION	By NTC (not provide with the power supply)			
	OUTPUT VOLTAGE SENSOR	L=output voltage +0.2 ~ 0.7V(AC OK); L=0V(AC Fail)			
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	± 0.05% /°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), EAC TP TC 004 approved			
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2.0KVAC O/P-FG:0.5KVAC			
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH			
	EMC EMISSION	Compliance to EN55032 (CISPR32) Class B, EN61000-3-2,3, EAC TP TC 020			
	EMC IMMUNITY	Compliance to EN61000-4-2, 3, 4, 5, 6, 8,11, ENV50204, EN55024, EN61000-6-1, light industry level, criteria A, EAC TP TC 020			
OTHERS	MTBF	461.2K hrs min. MIL-HDBK-217F (25°C)			
	DIMENSION	159*97*38mm (L*W*H)			
	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. 8. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). (As available on http://www.meanwell.com)				

Case No. 901 Unit:mm



Block Diagram

The block diagram illustrates the power supply system architecture. It starts with an I/P (Input) and FG (Ground Fault) input. The I/P line passes through an EMI FILTER. The FG line is connected to ground. The output of the EMI filter goes to a RECTIFIERS & FILTER block. This is followed by a POWER SWITCHING block, which is controlled by a CONTROL block. The CONTROL block receives feedback from an O.L.P. (Over Load Protection) block and an O.V.P. (Over Voltage Protection) block. The output of the POWER SWITCHING block is connected to a transformer. The secondary of the transformer feeds into another RECTIFIERS & FILTER block. The output of this second filter is connected to the output terminals: L (Line), B+ (Battery Positive), +V (Positive Voltage), -V (Negative Voltage), and B- (Battery Negative). A DETECTION CIRCUIT is connected to the output lines and provides feedback to the CONTROL block. A fosc : 60KHz signal is also connected to the output lines. The entire system is grounded.

Graph showing Load (%) versus Input Voltage (VAC) 60Hz at $T_a = 25^\circ\text{C}$. The load increases linearly from 80% at 85V to 100% at 100V, then remains constant at 100% up to 264V.

Input Voltage (VAC) 60Hz	Load (%)
85	80
100	100
264	100

Function Description

1.B+,B-

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

2.L

Output voltage detection, detect output voltage or battery voltage (if battery is used).

	Voltage of L Pin
AC OK	Output voltage +0.2~0.7V(depends on Vf of diode)
AC Fail	0V

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: (Under rated DC output voltage)

Connect 100K Ω Thermistor(THINKING) on NTC. The output voltage will change along

with the temperature change. If the output voltage is adjusted other than the rated value by internal potential meter, please consult Meanwell for suitable value of Thermistor.

	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

