

35W Single Output Switching Power Supply

SCP-35 series



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

100% full load burn-in test

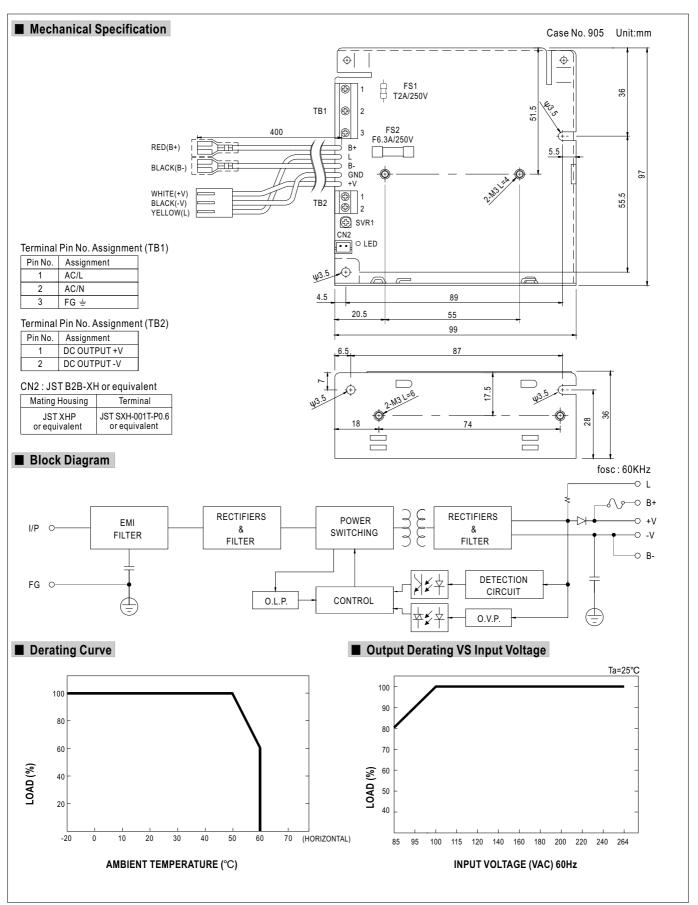


SPECIFICATION

		CP-35-12 SCP-35-24			
MODEL	DC VOLTAGE	13.8V	27.6V		
OUTPUT	RATED CURRENT	2.6A	1.4A		
		0~2.6A			
	CURRENT RANGE		0~1.4A		
	PEAK 5S Note.6		1.7A		
	RATED POWER	35.9W	38.6W		
	RIPPLE & NOISE (max.) Note.2		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.)	83%	86%		
	AC CURRENT (Typ.)	0.75A/115VAC 0.5 A/230VAC			
	INRUSH CURRENT (Typ.)	COLD START 45A			
	LEAKAGE CURRENT	<2mA/240VAC			
FUNCTION	TEMP. COMPENSATION	By NTC (not provide with the power supply)			
I UNCTION	OUTPUT VOLTAGE SENSOR	L=output voltage +0.2 ~ 0.7V(AC OK); L=0V(AC Fail)			
		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			
	WORKING TEMP.	-20 ~ +60°C (Refer to output load derating curve)			
	WORKING HUMIDITY	20 ~ 90% RH non-condensing			
ENVIRONMENT	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 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 (Note 6)	EMC EMISSION	Compliance to EN55022 (CISPR22) Class B, EN61000-3-2,3			
	EMC IMMUNITY	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, ENV50204, EN55024, EN61000-6-1, light industry level, criteria A			
	MTBF	523.3Khrs min. MIL-HDBK-217F (25°C)			
OTHERS	DIMENSION	99*97*36mm (L*W*H)			
	PACKING	0.37Kg; 45pcs/17.7Kg/1CUFT			
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance : includes set up tolerance, line regulation and load regulation. Line regulation is measured from low line to high line at rated load. Load regulation is measured from 0% to 100% rated load. 33% Duty cycle maximum within every 15 seconds. Average output power should not exceed the rated power. 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. (As available on http://www.meanwell.com) 				



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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	٥V	

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-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

