



Features:

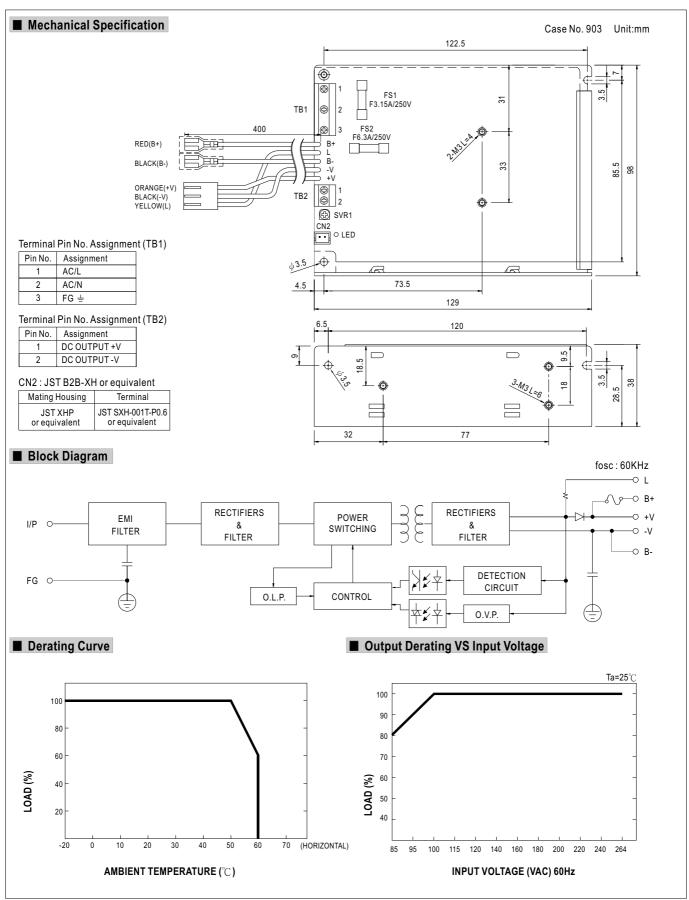
- Universal AC input/Full range
- Protections: Short circuit / Overload / Over voltage / Battery polarity protections (by fuse)
- Cooling by free air convection
- LED indicator for power on
- No load power consumption < 0.75W
- 100% full load burn-in test

₽1 US CBC€

SPECIFICATION

MODEL		SCP-50-12	SCP-50-24		
OUTPUT	DC VOLTAGE	13.8V	27.6V		
	RATED CURRENT	3.6A	1.8A		
	CURRENT RANGE	0 ~ 3.6A	0 ~ 1.8A		
	PEAK 5S Note.6	4.3A	2.2A		
	RATED POWER	49.7W	49.7W		
	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.)	81%	85%		
	AC CURRENT (Typ.)	1.1A/115VAC 0.65A/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 ^{+0.7} ₋₀ V			
	OVERLOAD	4.3 ~ 5.8A rated output power	2.2 ~ 2.9A rated output power		
PROTECTION		Protection type : Hiccup mode, recovers automatically after fault	condition is removed		
	OVER VOLTAGE	16.6 ~ 19.3V	33.1 ~ 38.5V		
	OVER VOLINGE	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 7)	SAFETY STANDARDS	UL60950-1, CB(IEC60950-1) approved			
	WITHSTAND VOLTAGE	I/P-0/P:3KVAC			
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH			
	HARMONIC CURRENT				
		Compliance to EN61000-3-2,-3			
	MTBF	Compliance to EN61000-4-2, 3, 4, 5, 6, 8,11, ENV50204, EN55024, EN61000-6-1, light industry level, criteria A			
OTHERS		495.7K hrs min. MIL-HDBK-217F (25°C)			
	DIMENSION	129*98*38mm (L*W*H)			
	PACKING 1 All parameters NOT specia	0.45Kg; 30pcs/14.5Kg/0.95CUFT			
NOTE	Ripple & noise are measure Tolerance : includes set up Line regulation is measure Load regulation is measure S3% Duty cycle maximum	ameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Includes set up tolerance, line regulation and load regulation. gulation is measured from low line to high line at rated load. Begulation is measured from 0% to 100% rated load. But y cycle maximum within every 15 seconds. Average output power should not exceed the rated power. But y cycle maximum within every 15 seconds. Average output power should not exceed the rated power. But y cycle maximum within every 15 seconds. Average output power should not exceed the rated power. But y cycle maximum within every 15 seconds. Average output power should not exceed the rated power. But y cycle maximum within every 15 seconds. Average output power should not exceed the rated power.			
	6. 33% Duty cycle maximum v 7. The power supply is consid	within every 15 seconds. Average output power should not exce			







■ Function Description

1.B+,B-

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

2 I

Output voltage detection, detection output voltage or battery voltage (if battery is used). L=output voltage $^{+0.7}_{0.0}$ V.

3.+V,-V

Output voltage. Can't connect the battery.

4 CN2

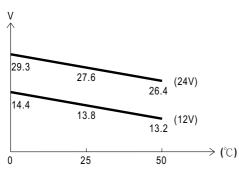
Temperature sensor can be connected to the unit to allow temperature compensation of the charging voltage.

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



Temperature Sensor