



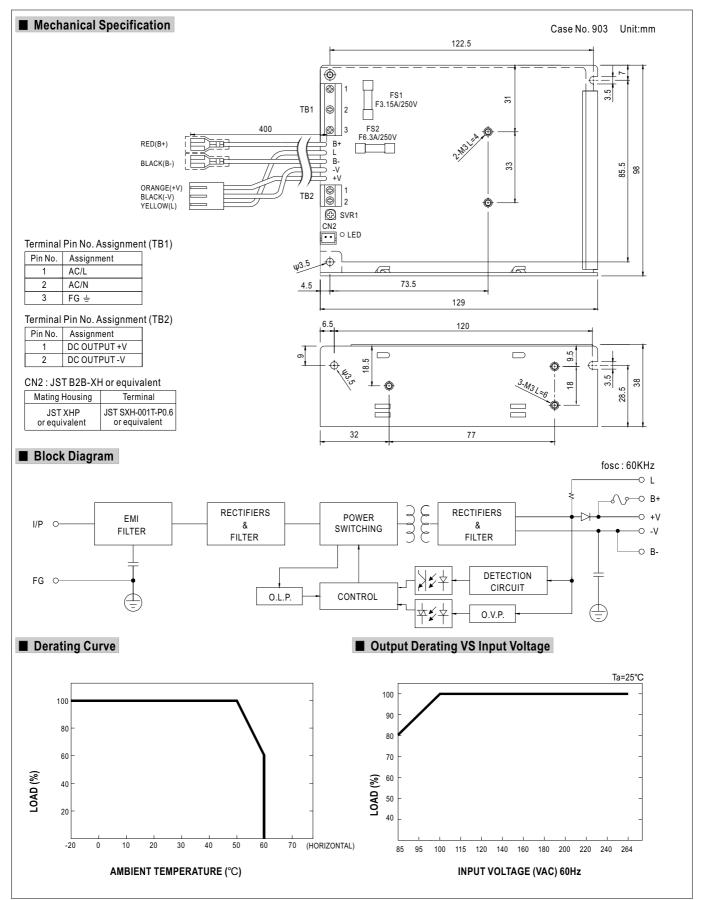
## ■ Features :

- '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

**₽** CB(€

SPECIFICATION		'2 years warranty	n-in test cMus CBC			
MODEL		SCP-50-12	SCP-50-24			
ОИТРИТ	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)				
FUNCTION	OUTPUT VOLTAGE SENSOR	L=output voltage +0.2 ~ 0.7V(AC OK); L=0V(AC Fail)				
	OVERLOAD	4.3 ~ 5.8A rated output power 2.2 ~ 2.9A rated output power				
PROTECTION	OVERLUAD	Protection type: Hiccup mode, recovers automatically after fault	condition is removed			
PROTECTION	OVER VOLTAGE	16.6 ~ 19.3V	33.1 ~ 38.5V			
	OVER VOLINGE	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	0.03%/°C (0~45°C)				
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes				
SAFETY &	SAFETY STANDARDS	UL60950-1, CB(IEC60950-1) approved				
EMC	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC				
(Note 7)	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH				
	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				
OTHERS	MTBF	495.7K hrs min. MIL-HDBK-217F (25°C)				
	DIMENSION	129*98*38mm (L*W*H)				
	PACKING	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 v	ally mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. red at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. to tolerance, line regulation and load regulation. Indicate the first load in the second of the s				







# **■** 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	
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  $100 K\Omega$  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-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

