

**SPECIFICATION** 



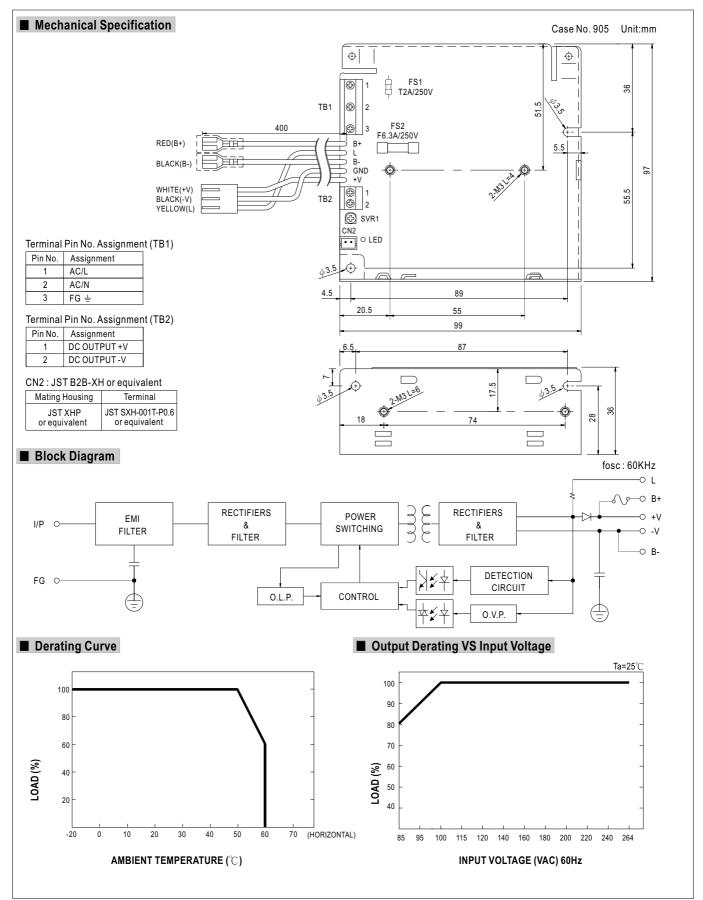
# Features:

- 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

# **511** US CBCE

MODEL		SCP-35-12	SCP-35-24	
ОИТРИТ	DC VOLTAGE	13.8V	27.6V	
	RATED CURRENT	2.6A	1.4A	
	CURRENT RANGE	0 ~ 2.6A	0 ~ 1.4A	
	PEAK 5S Note.6	3.1A	1.7A	
	RATED POWER	35.9W	38.6W	
	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.)	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)		
	OUTPUT VOLTAGE SENSOR	L=output voltage <sup>+0.7</sup> <sub>-0</sub> V		
	OVERLOAD	3.1 ~ 4.2A rated output power	1.7 ~ 2.3A rated output power	
PROTECTION	O VERLEO/ID	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		
	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 & 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		
	EMS IMMUNITY	Compliance to EN61000-4-2, 3, 4, 5, 6, 8,11, ENV50204, EN5502	24, EN61000-6-1, light industry level, criteria A	
OTHERS	MTBF	523.3Khrs min. MIL-HDBK-217F (25℃)		
	DIMENSION	99*97*36mm (L*W*H)		
	PACKING	0.37Kg; 45pcs/17.7Kg/1CUFT	**************************************	
NOTE	Ripple & noise are measure     Tolerance : includes set up     Line regulation is measure     Load regulation is measure     S3% Duty cycle maximum	cially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.  sured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.  up tolerance, line regulation and load regulation.  irred from low line to high line at rated load.  ured from 0% to 100% rated load.  m within every 15 seconds. Average output power should not exceed the rated power.  isidered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets		







# **■** 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

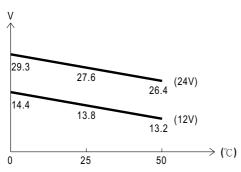
Temperature sensor can be connected to the unit to allow temperature compensation of the charging voltage.

If the sensor is not used, the charger still works normally.

## Reference example:

Connect 100K  $\Omega$  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℃	Ta :50°℃
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



Temperature Sensor