



450W Single Output Power Supply

SE-450 series



■ Features :

- AC input active surge current limiting
- AC input range selected by switch
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Forced air cooling by built-in DC fan
- Built-in remote sense function
- LED indicator for power on
- UL approved
- Low cost, high reliability
- 100% full load burn-in test
- 2 years warranty

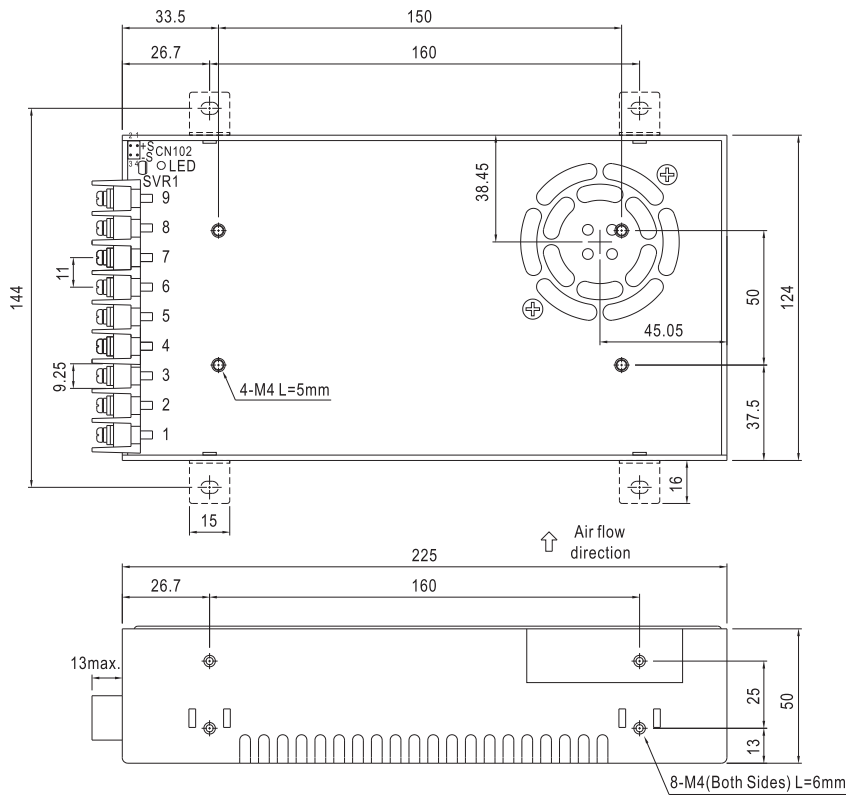


SPECIFICATION

MODEL		SE-450-3.3	SE-450-5	SE-450-12	SE-450-15	SE-450-24	SE-450-36	SE-450-48
OUTPUT	DC VOLTAGE	3.3V	5V	12V	15V	24V	36V	48V
	RATED CURRENT	75A	75A	37.5A	30A	18.8A	12.5A	9.4A
	CURRENT RANGE	0 ~ 75A	0 ~ 75A	0 ~ 37.5A	0 ~ 30A	0 ~ 18.8A	0 ~ 12.5A	0 ~ 9.4A
	RATED POWER	247.5W	375W	450W	450W	451.2W	450W	451.2W
	RIPPLE & NOISE (max.) Note.2	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p
	VOLTAGE ADJ. RANGE	2.97 ~ 3.63V	4.5 ~ 5.5V	10.8 ~ 13.5V	13.5 ~ 16.5V	21.6 ~ 28.5V	32.4 ~ 39.6V	43.2 ~ 52.8V
	VOLTAGE TOLERANCE Note.3	±3.0%	±3.0%	±1.0%	±1.0%	±1.5%	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%	±0.3%	±0.3%	±0.2%	±0.2%	±0.2%
	LOAD REGULATION	±2.0%	±2.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
INPUT	SETUP, RISE TIME	1500ms, 50ms/230VAC 1500ms, 50ms/115VAC at full load						
	HOLD UP TIME (Typ.)	16ms/230VAC 12ms/115VAC at full load						
	VOLTAGE RANGE	90 ~ 132VAC / 180 ~ 264VAC selected by switch 254 ~ 370VDC						
	FREQUENCY RANGE	47 ~ 63Hz						
	EFFICIENCY (Typ.)	74%	78%	83%	84%	86%	86%	88%
	AC CURRENT (Typ.)	10A/115VAC 6A/230VAC						
PROTECTION	INRUSH CURRENT (Typ.)	35A/115VAC 55A/230VAC						
	LEAKAGE CURRENT	<2.5mA / 240VAC						
	OVERLOAD	105 ~ 150% rated output power Protection type : Shut down o/p voltage, re-power on to recovery						
	OVER VOLTAGE	3.8 ~ 4.6V	5.75 ~ 6.75V	13.8 ~ 16.2V	18 ~ 21V	32 ~ 36V	45 ~ 52V	57.6 ~ 67.2V
ENVIRONMENT	OVER TEMPERATURE	80°C±5°C(3.3 ~ 12V), 90°C±5°C(15 ~ 48V) (TSW1) detect on heatsink of power transistor Protection type : Shut down o/p voltage, recovers automatically after temperature goes down						
	WORKING TEMP.	-10 ~ +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 ~ 50°C)						
SAFETY & EMC	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes						
	SAFETY STANDARDS	UL60950-1 approved						
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC						
OTHERS	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH						
	MTBF	200K hrs min. MIL-HDBK-217F (25°C)						
	DIMENSION	225*124*50mm (L*W*H)						
NOTE	PACKING	1.25Kg/12PCS/16Kg/1CUFT						
		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.						

Mechanical Specification

Case No. 986 Unit:mm



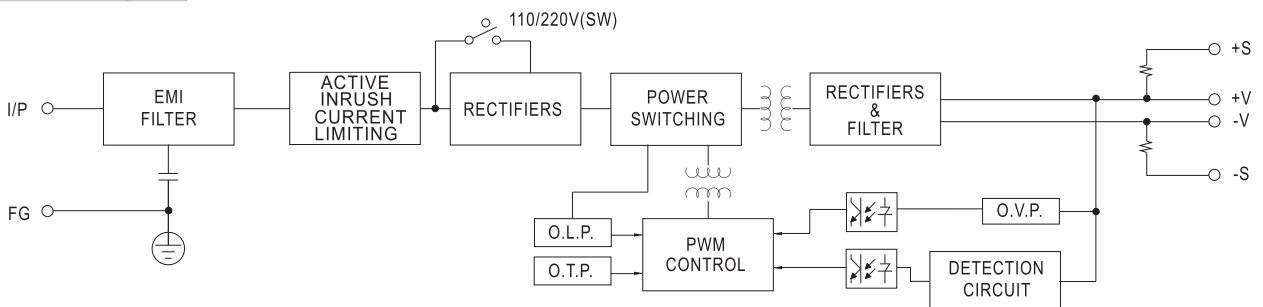
CN102:Remote Sense

Pin No.	Assignment
1,2	RS+
3,4	RS-

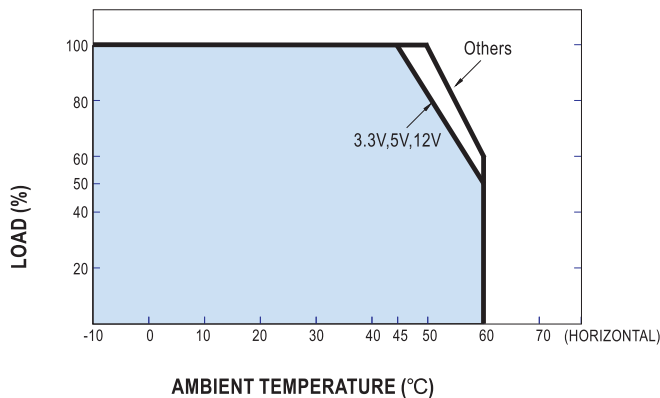
Terminal Pin No. Assignment :

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4~6	DC OUTPUT -V
2	AC/N	7~9	DC OUTPUT +V
3	FG $\perp$		

Block Diagram



Derating Curve



Static Characteristics

