

### **FEATURES**

- 2 Year Warranty
- Low Cost, High Reliability
- Fixed Switching Frequency
- Compact Size, Light Weight
- 100% Full Load Burn-In Tested
- Cooling Fan ON/OFF Auto Control
- Built-In EMI Filter, Low Ripple Noise
- AC Input Range Selectable by Switch
- Forced Air Cooling by Built-In DC Fan
- High Efficiency, Low Working Temperature
- Soft Start Circuit, Limiting AC Surge Current
- Short Circuit, Overload, Over Voltage, and Over Temperature Protected





25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted.  88 ~ 132VAC / 176 ~ 264VAC auto switch (248 ~ 370VDC)  47 to 63Hz  6A @ 115VAC 3.5A @ 230VAC					
ne right to change specifications based on technological advances.  88 ~ 132VAC / 176 ~ 264VAC auto switch (248 ~ 370VDC)  47 to 63Hz					
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1 bA (a) 115VAC 3 5A (a) 23UVAC					
18A @ 115VAC 36A @ 230VAC					
< 3.5mA @ 240VAC					
- 0.01111 (g 2107) (c					
See Table					
See Table					
5V & 7.5V outputs: ±2.0%; 12V - 48V outputs: ±1.0%					
See Table					
±0.5%					
5V & 7.5V outputs: ±1.0%; 12V - 48V outputs: ±0.5%					
See Table					
5V - 24V outputs: 150mVp-p; 27V output: 200mVp-p; 48V output: 240mVp-p					
2000ms, 20ms @ full load					
24ms @ full load					
±0.03%/°C (0 ~ 50°C)					
10.03 / 10 0 0 0 0 0 0					
105 ~ 135% rated output power					
Protection Type: Hiccup mode, recovers automatically after fault condition is removed.					
See Table					
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RTH1≥ 65°C Fan On, ≤ 55°C Fan Off, ≥ 70°C (5 ~ 15V)					
RTH1≥ 70°C Fan On, ≤ 65°C Fan Off, ≥ 80°C (24 ~ 48V)					
Protection Type: Hiccup mode, recovers automatically after fault condition is removed.					
90KHz					
See Table					
3000VAC (Input to Output), 1500VAC (Input to FG), 500VAC (Output to FG)					
100MΩ/500DC (Input to Output, Input to FG, and Output to FG)					
-10°C to +60°C (refer to output load derating curve)					
-20°C to +85°C					
20 ~ 90% RH non-condensing					
10 ~ 95% RH					
Forced air cooling by built-in DC fan.					
10 ~ 500Hz, 2G 10min./1 cycle, 60min each along X, Y, Z axes.					
188,700 hours min. @ 25°C (MIL-HDBK-217F)					
1080 grams					
215(L) x 115(W) x 50(H) mm					
2 years					
UL60950-1 approved					

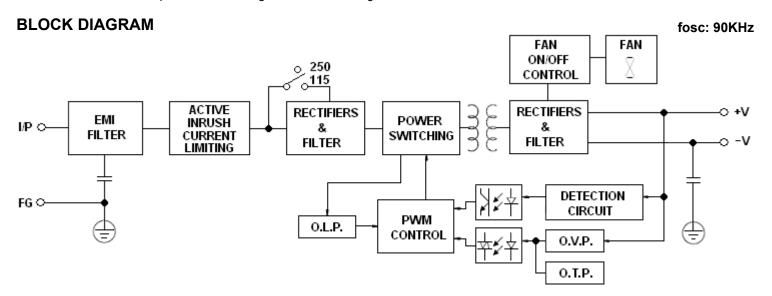


## **OUTPUT VOLTAGE / CURRENT RATING CHART**

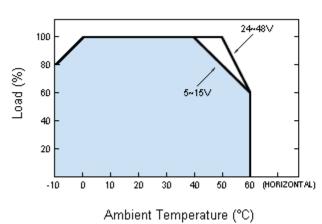
Model Number	Input Voltage	Output Voltage	Voltage Adjust. Range	Over Voltage Protection	Output Current	Ripple & Noise	Output Power	Efficiency
PSS-320-5	88 ~ 132 VAC or 176 ~ 264 VAC	5 VDC	4.5 ~ 5.7V	5.75 ~ 6.75V	50A	150mVp-p	250W	77%
PSS-320-7.5		7.5 VDC	6 ~ 9V	9.4 ~ 10.9V	36A	150mVp-p	270W	80%
PSS-320-12		12 VDC	10 ~ 13.2V	13.8 ~ 16.2V	25A	150mVp-p	300W	82%
PSS-320-13.5		13.5 VDC	12 ~ 15V	15.5 ~ 18.2V	22A	150mVp-p	297W	83%
PSS-320-15		15 VDC	13.5 ~ 18V	18 ~ 21V	20A	150mVp-p	300W	84%
PSS-320-24	170 - 204 VAC	24 VDC	20 ~ 26.4V	27.6 ~ 32.4V	12.5A	150mVp-p	300W	86%
PSS-320-27		27 VDC	26 ~ 32V	33.7 ~ 39.2V	11A	200mVp-p	297W	86%
PSS-320-48		48 VDC	41 ~ 56V	57.6 ~ 67.2V	6.5A	240mVp-p	312W	87%

### **NOTES**

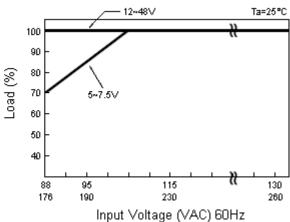
- 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load, and 25°C ambient temperature.
- 2. Ripple & noise are measured at 20MHz bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF& 47uF parallel capacitor.
- 3. Tolerances include set up tolerance, line regulation, and load regulation.



## **DERATING CURVE**



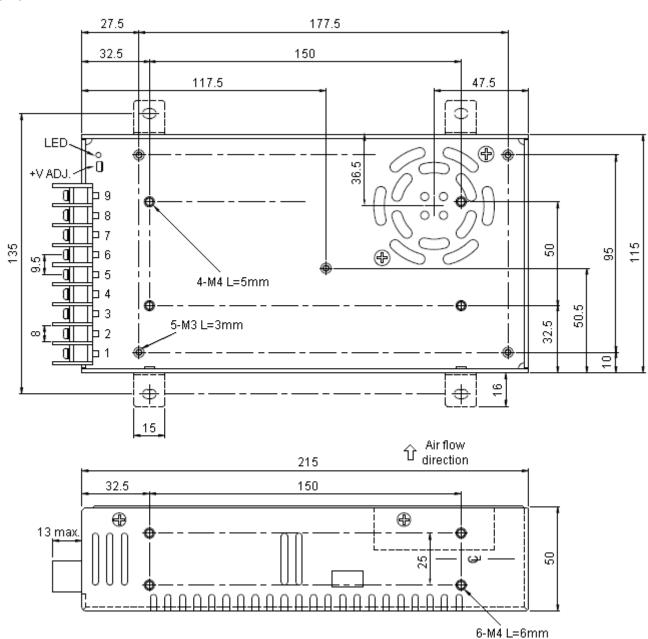
# STATIC CHARACTERISTICS





### **MECHANICAL DRAWING**

Unit: mm



## **Terminal Pin No. Assignment**

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