

#### **FEATURES**

- 3 Year Warranty
- Built-In Fan Speed Control
- Fixed Switching Frequency
- 100% Full Load Burn-In Tested
- Universal AC Input / Full Range
- Forced Air Cooling by Built-In DC Fan
- Built-In Active PFC Function, PF > 0.95
- Short Circuit, Overload, Over Voltage, and Over Temperature Protected





SPECIFICATIONS: PSSP320 Serie					
All specifications are base	ed on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted.				
	erve the right to change specifications based on technological advances.				
INPUT SPECIFICATIONS					
Input Voltage Range (See Note 5)	88 ~ 264VAC (124 ~ 370VDC)				
Input Frequency	47 to 63Hz				
AC Current (typical)	3.3V output: 2.5A @ 115VAC, 1.5A @ 230VAC				
	5V-48V outputs: 5A @ 115VAC, 2.5A @ 230VAC				
Inrush Current (typical)	20A @ 115VAC 40A @ 230VAC				
Leakage Current	< 1mA @ 240VAC PF > 0.95 @ 230VAC PF > 0.98 @ 115VAC and full load				
Power Factor (typical)	PF > 0.95 @ 230VAC				
OUTPUT SPECIFICATIONS	L Cae Table				
Output Voltage	See Table				
Output Power	See Table				
Voltage Tolerance (See Note 3)	5V & 7.5V outputs: 2.0%; Other outputs: 1.0%				
Voltage Adjustment Range	See Table				
Line Regulation	3.3V-7.5V outputs: 0.5%; 12V-15V outputs: 0.3%; 24V-48V outputs: 0.2%				
Load Regulation	3.3V output: 1.5%; 5V & 7.5V outputs: 1.0%; 12V - 48V outputs: 0.5%				
Output Current	See Table				
Ripple & Noise (max) (See Note 2)	See Table				
Setup, Rise Time	800ms, 50ms @ 230VAC and full load 2500ms, 50ms @115VAC and full load				
Hold Up Time (typical)	16ms @ 230VAC and full load 16ms @ 115VAC and full load				
Temperature Coefficient	±0.03%/°C (0 ~ 50°C)				
PROTECTION	100 1000				
Overload Protection	105 ~ 135% rated output power Protection Type: Hiccup mode; recovers automatically after fault condition is removed				
Over Voltage Protection	See Table Protection Type: Shutdown output voltage, re-power on to recover.				
Over Temperature Protection	80°C ±5°C (70°C ±5°C: 3.3V & 5V only) (TSW1: detect on heatsink of power transistor) Protection Type: Shutdown output voltage; recovers automatically after temperature goes dow				
GENERAL SPECIFICATIONS					
Switching Frequency	100KHz				
Efficiency (typical)	See Table				
Withstand Voltage	3000VAC (Input to Output), 1500VAC (Input to FG), 500VAC (Output to FG)				
Isolation Resistance	100MΩ/500DC (Input to Output, Input to FG, and Output to FG)				
ENVIRONMENTAL SPECIFICATIONS					
Working Temperature	-20°C to +65°C (refer to output load derating curve)				
Storage Temperature	-40°C to +85°C				
Working Humidity	20 ~ 90% RH non-condensing				
Storage Humidity	10 ~ 95% RH				
Vibration	10 ~ 500Hz, 2G 10min./1 cycle, 60min each along X, Y, Z axes.				
Cooling	Forced air cooling by built-in DC fan				
MTBF	207,000 hours min. @ 25°C (MIL-HDBK-217F)				
PHYSICAL SPECIFICATIONS					
Weight	1179 grams				
Dimensions	215(L) x 115(W) x 50(H) mm				
Warranty	3 years				
SAFETY & EMC					
Safety Standards	UL60950-1, TUV EN60950-1 approved				
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, EN55024, light industry level, criteria A				

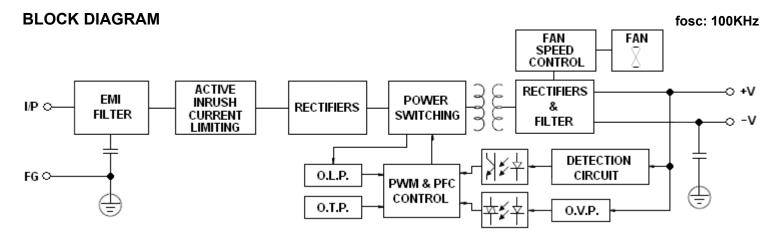


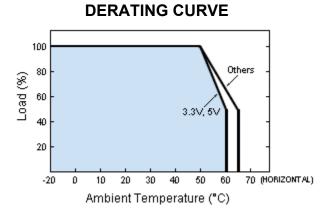
#### **OUTPUT VOLTAGE / CURRENT RATING CHART**

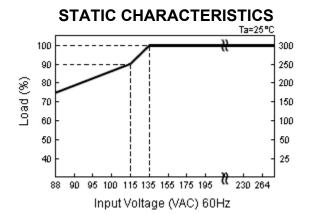
Model Number	Input Voltage	Output Voltage	Voltage Adjust. Range	Over Voltage Protection	Output Current	Output Ripple & Noise	Output Power	Efficiency
PSSP-320-3.3		3.3 VDC	3.14 ~ 3.63V	3.8 ~ 4.5V	55A	150mVp-p	181.5W	74%
PSSP-320-5		5 VDC	4.5 ~ 5.5V	5.75 ~ 6.75V	55A	150mVp-p	275W	79%
PSSP-320-7.5		7.5 VDC	6 ~ 9V	9.4 ~ 10.9V	40A	150mVp-p	300W	83%
PSSP-320-12		12 VDC	10 ~ 13.2V	13.8 ~ 16.2V	25A	150mVp-p	300W	86%
PSSP-320-13.5	88 ~ 264 VAC	13.5 VDC	12 ~ 15V	15.5 ~ 18.2V	22A	150mVp-p	297W	86%
PSSP-320-15	(124 ~ 370 VDC)	15 VDC	13.5 ~ 18V	18 ~ 21V	20A	150mVp-p	300W	86%
PSSP-320-24		24 VDC	20 ~ 26.4V	27.6 ~ 32.4V	13A	150mVp-p	312W	87%
PSSP-320-27		27 VDC	26 ~ 31.5V	33.7 ~ 39.2V	11.7A	200mVp-p	315.9W	88%
PSSP-320-36		36 VDC	32.4 ~ 39.6V	45 ~ 52.5V	8.8A	220mVp-p	316.8	87%
PSSP-320-48		48 VDC	41 ~ 56V	57.6 ~ 67.2V	6.7A	240mVp-p	321.6W	89%

## **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.
- 4. The power supply is considered a component, which will be installed into final equipment. The final equipment must be re-confirmed that it still meets EMC directives.
- 5. Derating may be needed under low input voltages. Please check the derating curve for more details.



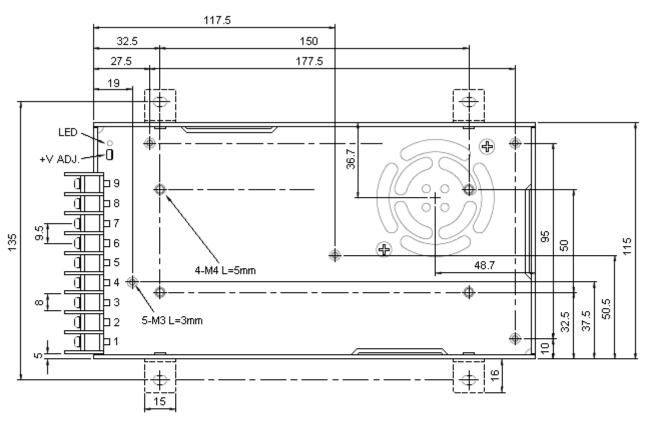


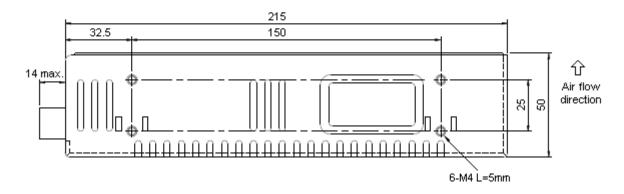




## **MECHANICAL DRAWING**

Unit: mm





# **Terminal Pin No. Assignment**

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