

## FEATURES

- 3 Year Warranty
- Fixed Switching Frequency
- LED Indicator for Power On
- Low Profile: 33mm Thickness
- 100% Full Load Burn-In Tested
- Universal AC Input / Full Range
- Remote ON/OFF Control (Optional)
- Built-In Active PFC Function, PF > 0.93
- Built-In Constant Current Limiting Circuit
- Short Circuit, Overload, and Over Voltage Protected



### SPECIFICATIONS: PSSP75 Series

All specifications are based on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted.  
We reserve the right to change specifications based on technological advances.

#### INPUT SPECIFICATIONS

Input Voltage Range (See Note 5)	85 ~ 264VAC (120 ~ 370VDC)
Input Frequency	47 to 63Hz
AC Current (typical)	1.3A @ 115VAC 0.7A @ 230VAC
Inrush Current (typical)	Cold Start 30A @ 230VAC
Leakage Current	< 2mA @ 240VAC
Power Factor (typical)	PF > 0.93 @ 230VAC PF > 0.96 @ 115VAC and full load
Remote ON/OFF Control (Option)	CN3: 4~10VDC POWER OFF, < 0 ~ 0.8VDC POWER ON

#### OUTPUT SPECIFICATIONS

Output Voltage	See Table
Output Power	See Table
Voltage Tolerance (See Note 3)	3.3V - 15V outputs: 2.0%; 24V - 48V outputs: 1.0%
Voltage Adjustment Range	See Table
Line Regulation	0.5%
Load Regulation	3.3V - 7.5V outputs: 1.0%; 12V - 48V outputs: 0.5%
Output Current	See Table
Ripple & Noise (max) (See Note 2)	3.3V - 15V outputs: 80mVp-p; 24V - 48V outputs: 100mVp-p
Setup, Rise Time	600ms, 60ms @ full load
Hold Up Time (typical)	36ms @ full load
Temperature Coefficient	±0.05%/°C (0 ~ 50°C)

#### PROTECTION

Overload Protection	105 ~ 150% rated output power Protection Type: Constant current limiting; recovers automatically after fault condition is removed
Over Voltage	See Table Protection Type: Shutdown output voltage, re-power on to recover.

#### GENERAL SPECIFICATIONS

Switching Frequency	PFC: 67KHz PWM: 134KHz
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	-10°C to +60°C (refer to output load derating curve)
Storage Temperature	-20°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.
MTBF	208,800 hours min. @ 25°C (MIL-HDBK-217F)

#### PHYSICAL SPECIFICATIONS

Weight	550 grams
Dimensions	179(L) x 97(W) x 33(H) mm
Warranty	3 years

#### SAFETY & EMC (See Note 4)

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

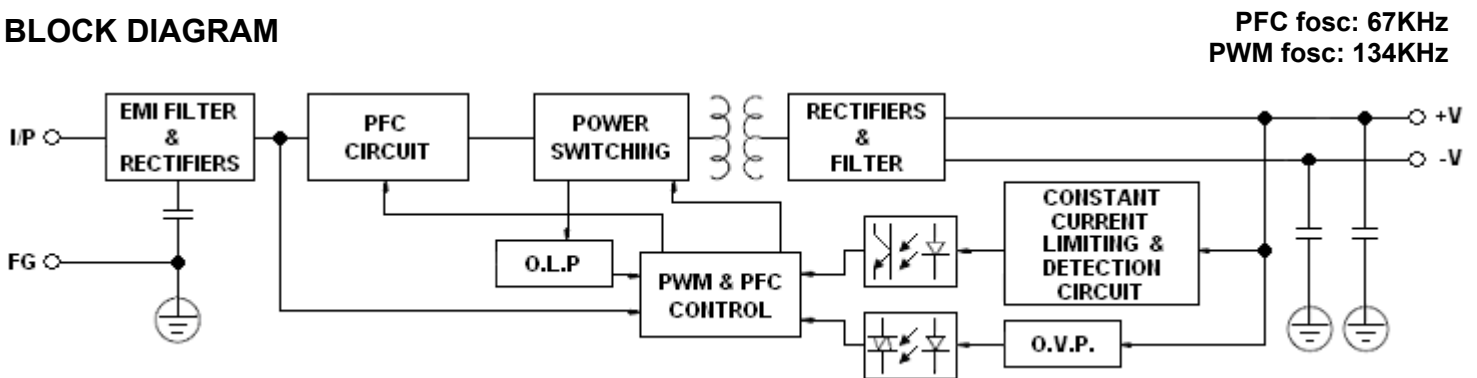
**OUTPUT VOLTAGE / CURRENT RATING CHART**

Model Number	Input Voltage	Output Voltage	Voltage Adjust. Range	Over Voltage Protection	Output Current	Output Power	Efficiency
PSSP-75-3.3	85 ~ 264 VAC (120 ~ 370 VDC)	3.3 VDC	3.14 ~ 3.63V	3.8 ~ 4.46V	15A	49.5W	68%
PSSP-75-5		5 VDC	4.75 ~ 5.5V	5.75 ~ 6.75V	15A	75W	72%
PSSP-75-7.5		7.5 VDC	7.13 ~ 8.25V	8.63 ~ 10.13V	10A	75W	74%
PSSP-75-12		12 VDC	11.4 ~ 13.2V	13.8 ~ 16.2V	6.3A	75.6W	77%
PSSP-75-13.5		13.5 VDC	12.8 ~ 14.9V	15.53 ~ 18.23V	5.6A	75.6W	78%
PSSP-75-15		15 VDC	14.3 ~ 16.5V	17.25 ~ 20.25V	5A	75W	79%
PSSP-75-24		24 VDC	22.8 ~ 26.4V	27.6 ~ 32.4V	3.2A	76.8W	80%
PSSP-75-27		27VDC	25.7 ~ 29.7V	31.05 ~ 36.45V	2.8A	75.6W	80%
PSSP-75-48		48 VDC	45.6 ~ 52.8V	55.2 ~ 64.8V	1.6A	76.8W	80%

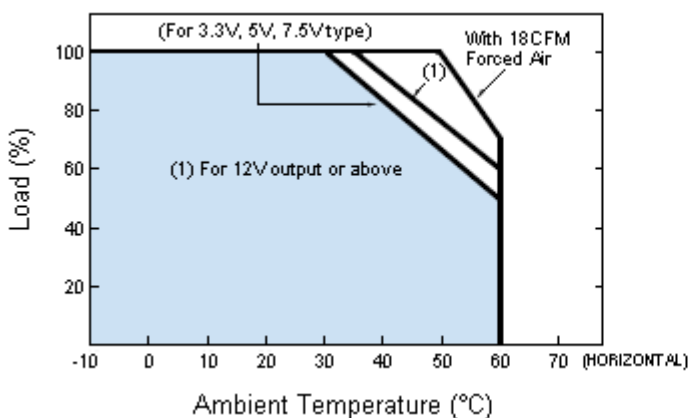
**NOTES**

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.

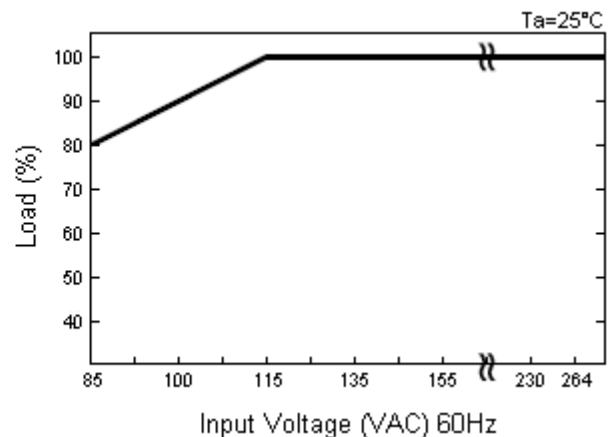
**BLOCK DIAGRAM**



**DERATING CURVE**

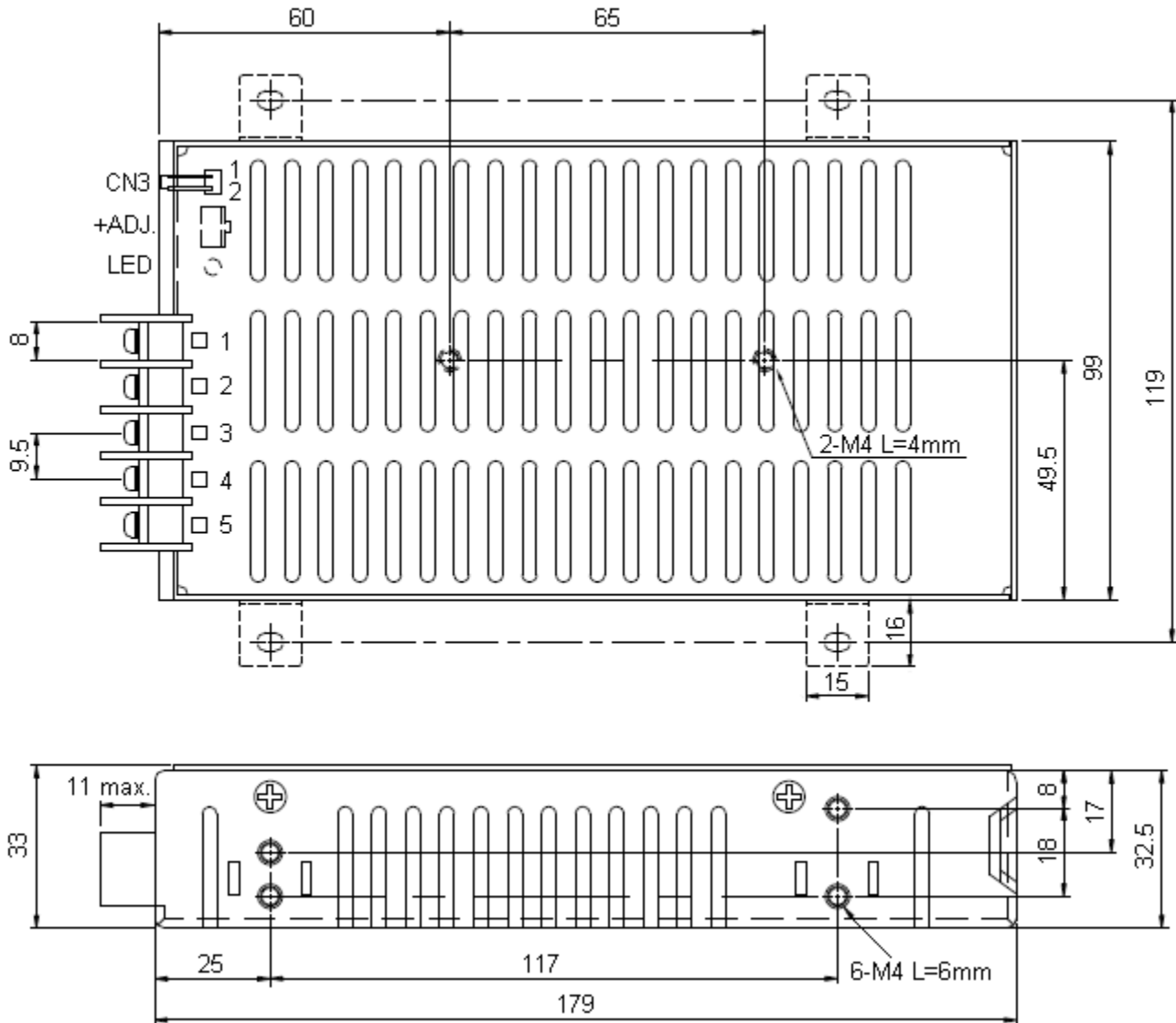


**OUTPUT DERATING VS INPUT VOLTAGE**



**MECHANICAL DRAWING**

Unit: mm



**Terminal Pin No. Assignment**

Pin No.	Assignment
1	DC OUTPUT +V
2	DC OUTPUT -V
3	FG
4	AC/N
5	AC/L

**Remote ON/OFF (CN3): Molex 5046-02 or equivalent (optional)**

Pin No.	Assignment	Mating Housing	Terminal
1	RC-	Molex 5051 or equivalent	Molex 2759 or equivalent
2	RC+		