

### **FEATURES**

- Medical Application
- Low Cost, High Reliability
- Compact Size, Light Weight
- 100% Full Load Burn-In Test
- Universal AC Input / Full Range
- UL2601-1, EN60601-1 Approved
- Built-In EMI Filter, Low Ripple Noise
- High Efficiency, Low Working Temperature
- Protections: Short Circuit /Overload /Over Voltage

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#### SPECIFICATIONS: PSMPS65 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	90 – 264VAC (127 – 370VDC)			
Input Frequency	47 to 440Hz			

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AC Current (typical)	1.6A @ 115VAC / 0.9A @ 230VAC					
Inrush Current	Cold start 15A @ 115VAC; 30A @ 230VAC					
Leakage Current	Less than 0.3mA @ 264VAC					
OUTPUT SPECIFICATIONS						
Output Voltage	See Table					
Voltage Tolerance	±2.0% typical					
Output Adjustment Range	±10% rated output load					
Output Power	72W max with 18CFM minimum forced air flow					
Line Regulation	±1%					
Load Regulation	±2% typical					
Output Current	See Table					
Ripple & Noise (20MHz BW)	100mVp-p typical					
Setup, Rise Time	800ms and 30ms @ 230VAC and full load / 800ms and 30ms @ 115VAC and full load					
Hold-Up Time	50ms @ 230VAC and full load / 16ms @ 115VAC and full load.					
Temperature Coefficient	±0.04%/°C (0~50°C)					
PROTECTION						
Over Voltage Protection	CH.1: 115~135% rated output voltage					
Overload Protection	73~105W hiccup mode, auto-recovery					
GENERAL SPECIFICATIONS						
Switching Frequency (fixed)	45KHz					
Efficiency	Up to 80%					
Isolation Voltage (Input to Output)	4000VAC for 1 min.					
Isolation Voltage (Input to Field Ground)	1500VAC for 1 min.					
Isolation Resistance (Input to Output)	100MΩ / 500VDC					
ENVIRONMENTAL SPECIFICATIONS						
Operating Temperature	-10°C to +60°C (refer to derating curve)					
Storage Temperature	-20°C to +85°C					
Operating Humidity (non-condensing)	20% to 90% RH					
Vibration	10~500Hz, 2G 10min./1cycle, Period for 60 minutes each along X, Y, and Z axes.					
MTBF	359,700 hours min. (According to MIL-HDBK-217) at 25°C					
PHYSICAL SPECIFICATIONS						
Weight	280g					
Dimensions	127(L) x 76(W) x 42(H) mm					
SAFETY & EMC						
Safety Standards	andards UL2601-1, TUV EN60601-1, IEC601-1 Approved					
EMC Standards	EN55011 class B, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3, EN60601-1-2, ENV50204					

Wall Industries, Inc. 5 Watson Brook Road Exeter, NH 03833 603-778-2300 www.wallindustries.com Fax 603-778-9797



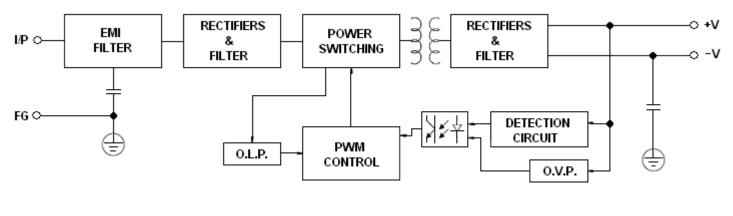
### **OUTPUT VOLTAGE / CURRENT RATING CHART**

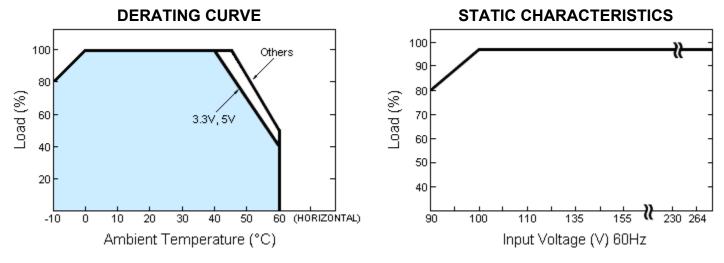
Model	Input Voltage	Output Voltage	Output Current Range	Output Current	Ripple & Noise	Rated Output Power
PSMPS65-3.3		3.3 VDC	0 – 15.2A	12A	80mVp-p	39.6W
PSMPS65-5		5 VDC	0 – 13.8A	12A	100mVp-p	60W
PSMPS65-7.5	90~264 VAC (127~370 VDC)	7.5 VDC	0 – 9.6A	8A	100mVp-p	60W
PSMPS65-12		12 VDC	0 – 6A	5.2A	100mVp-p	62.4W
PSMPS65-13.5		13.5 VDC	0 – 5.4A	4.7A	100mVp-p	63.5W
PSMPS65-15		15 VDC	0-4.8A	4.2A	100mVp-p	63W
PSMPS65-24		24 VDC	0 – 3A	2.7A	100mVp-p	64.8W
PSMPS65-27		27 VDC	0 – 2.7A	2.4A	100mVp-p	64.8W
PSMPS65-48		48 VDC	0 – 1.5A	1.35A	100mVp-p	64.8W

# NOTES

- 1. All parameters are specified at 230VAC input, rated load, 25°C ambient.
- 2. Tolerances include set up tolerance, line regulation, load regulation.
- 3. Line regulation is measured from low line to high line at rated load.
- 4. Mounting holes M1 and M2 should be grounded for EMI purposes.
- 5. Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uF & 47uF capacitor.

# BLOCK DIAGRAM



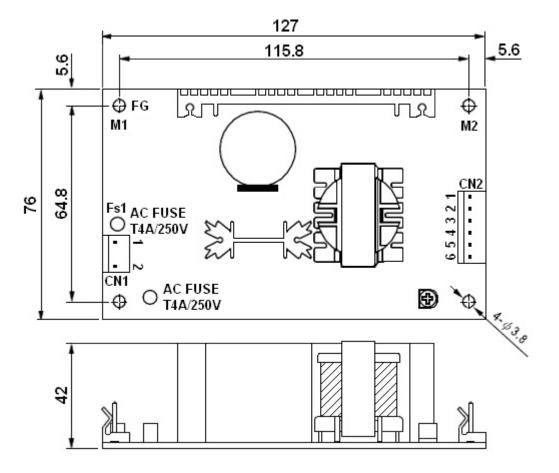


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### **MECHANICAL DRAWING**

#### Unit: mm



#### AC Input Connector (CN1): Molex 5277-02 or equivalent

Pin. No	Assignment	Mating Housing	Terminal
1	AC/N	Molex 5195	Molex 5194
2	AC/L	or equivalent	or equivalent

#### DC Output Connector (CN2): Molex 5273-06 or equivalent

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Pin No.	Assignment	Mating Housing	Terminal
1,2,3	+V	Molex 5195	Molex 5194
4,5,6	-V	or equivalent	or equivalent