

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
- Short Circuit, Overload, and Over Voltage Protected





SPECIFICATIONS: PSMPD45 Sel	ries			
All specifications are ba	ased on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted.			
	eserve the right to change specifications based on technological advances.			
INPUT SPECIFICATIONS	20 2011/10 (107 270)/70)			
Input Voltage	90 – 264VAC (127 – 370VDC)			
Input Frequency	47 to 440Hz			
AC Current (typical)	1.2A @ 115VAC / 0.7A @ 230VAC			
Inrush Current	20A @ 115VAC cold start / 40A @ 230VAC cold start.			
Leakage Current	Less than 0.3mA @ 264VAC			
OUTPUT SPECIFICATIONS				
Output Voltage	See Table			
Output Voltage Tolerance	±4.0% (CH.1) and ±7.0% (CH.2)			
Output Adjustment Range	CH1: ±10% rated output voltage.			
Output Power (max)	52 Watts with 18CFM forced airflow.			
Line Regulation	±1% (CH.1) and ±2% (CH.2)			
Load Regulation	±3% (CH.1) and ±4% (CH.2)			
Output Current	See Table			
Ripple & Noise (20MHz BW)	100mVp-p typical.			
Setup, Rise Time	800ms and 30ms at full load and 230VAC.			
Hold-Up Time	50ms at full load and 230VAC.			
Temperature Coefficient	±0.04%/°C (0~50°C) on +5V output.			
PROTECTION				
Over Voltage Protection	CH.1: 115~135% rated output voltage.			
Overload Protection	53~75W hiccup mode, auto-recovery.			
GENERAL SPECIFICATIONS				
Switching Frequency (fixed)	45KHz			
Efficiency	76% typical			
Isolation Voltage (Input to Output)	4000VAC for 1 min.			
Isolation Voltage (Input to FG)	1500VAC for 1min.			
Isolation Resistance (Input to Output)	500VDC / 100MΩ			
ENVIRONMENTAL SPECIFICATIONS				
Operating Temperature	-10°C to +60°C (refer to derating curve)			
Storage Temperature	-20°C to +85°C (10%~95% RH)			
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	291,300 hours min. MIL-HDBK-217 (25°C)			
PHYSICAL SPECIFICATIONS				
Weight	230g			
Dimensions	127(L) x 76(W) x 28(H) mm PCB only			
SAFETY & EMC				
Agency Approvals	UL/ CUL/ TUV/ CB/ CE			
Safety Standards	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			



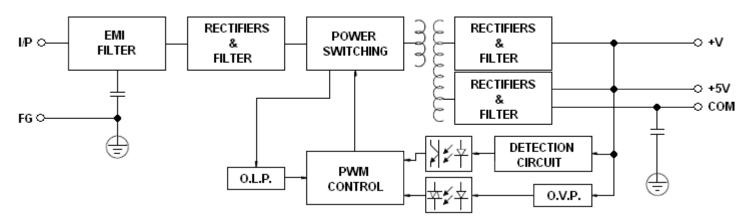
OUTPUT VOLTAGE / CURRENT RATING CHART

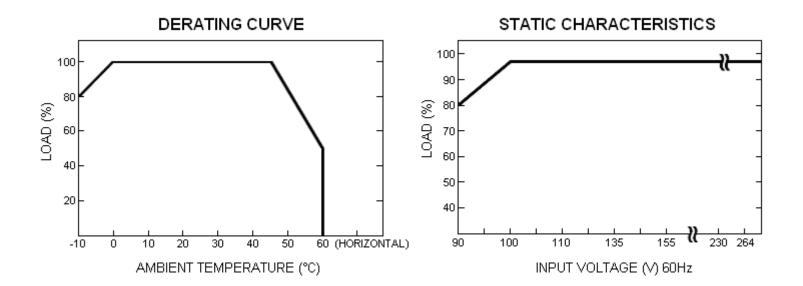
Mod	iel	Input Voltage	Output Voltage	Output Current Range	Output Current	Ripple & Noise	Output Power
PSMPD45A	Channel 1		5 VDC	0.4 ~ 5.0A	3.2A	60mVp-p	40W
F SIVIF D43A	Channel 2	90~264VAC	12 VDC	0.2 ~ 2.5A	2A	120mVp-p	4000
PSMPD45B	Channel 1	127~370VDC	5 VDC	0.4 ~ 5A	3.2A	60mVp-p	45W
F SIMIF D43B	Channel 2		24 VDC	0.2 ~ 1.8A	1.2A	150mVp-p	4500

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

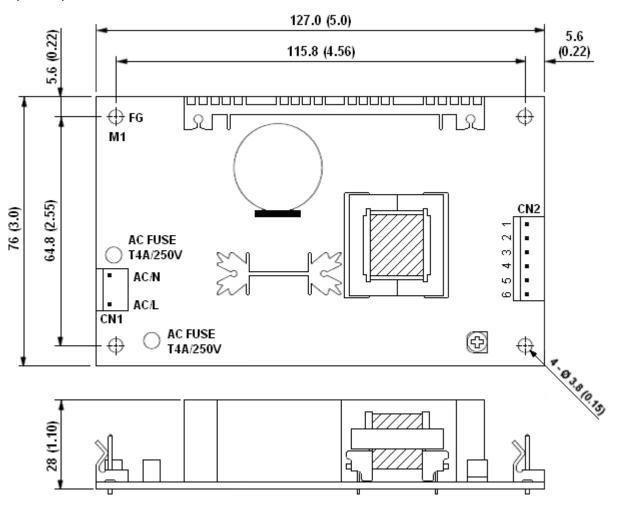






MECHANICAL DRAWING

Unit: mm (inches)



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

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