

## PM1100 SERIES



### INPUT SPECIFICATIONS

Input voltage:	90-264 VAC
Input frequency:	47-63 Hz
Input current:	16 A (rms) @100 VAC, 60 Hz 8 A (rms) @ 240 VAC, 50 Hz
Earth leakage current:	220 µA max. @ 264 VAC, 63 Hz

### OUTPUT SPECIFICATIONS

Output voltage/current:	See rating chart.
Maximum output power:	See rating chart.
Ripple and noise:	1% peak to peak maximum
Remote sense	Compensation for cable losses up to 0.5 V
Overvoltage protection:	Set at 112-140% of nominal output voltage
Overcurrent protection:	Set at 120-140% of maximum output current
Thermal shutdown	Protected to overtemperature conditions
Temperature coefficient:	All outputs ±0.04% /°C maximum
Transient response:	Maximum excursion of 4%, recovering to 1% of final value within 500 us after a 25% step load change
Standby power	5 V at 200 mA maximum
Fan power	12 V at 1.0 A maximum

### ENVIRONMENTAL SPECIFICATIONS

Operating temperature:	-10°C to +70°C
Storage temperature:	-40°C to +85°C
Relative humidity:	5% to 95% non-condensing
Derating:	Derate from 100% at +50°C linearly to 50% at +70°C, applicable to convection and forced-air cooling conditions

### OUTPUT VOLTAGE/CURRENT RATING CHART

Model	V1	Min. Current	Max. Current	Peak Current	Tol.	Ripple & Noise <sup>(2)</sup>	Max. Output Power <sup>(1)</sup>	@ 1100 W
								115/230 Vac
PM1100-14C	24 V	0 A	45.84 A	52.10 A	±2%	240 mV	1100 W /1250 W	87 /88%
PM1100-15C	28 V	0 A	39.29 A	44.65 A	±2%	280 mV	1100 W /1250 W	87 /88%
PM1100-16C	32 V	0 A	34.38 A	39.07 A	±2%	320 mV	1100 W /1250 W	87 /88%
PM1100-17-1C	34 V	0 A	32.35 A	36.77 A	±2%	340 mV	1100 W /1250 W	87 /89%
PM1100-17C	36 V	0 A	30.56 A	34.73 A	±2%	360 mV	1100 W /1250 W	87 /89%
PM1100-18-1C	42 V	0 A	26.20 A	29.77 A	±2%	420 mV	1100 W /1250 W	87 /89%
PM1100-18C	48 V	0 A	22.92 A	26.10 A	±2%	480 mV	1100 W /1250 W	87 /89%

#### NOTES:

1. Peak current and power possible at 170-260 VAC input, 10 seconds, 35% duty cycle.
2. Ripple and noise is maximum peak-to-peak voltage value measured at output within 20 MHz bandwidth, at rated line voltage and output load ranges, and with a 10 µF tantalum capacitor in parallel with a 0.1 µF ceramic capacitor across the output.

### FEATURES

- BF Class insulation
- Operation up to 5000 meters
- Less than 220 µA leakage current
- EN55011 Class B conducted emissions
- Inhibit - TTL low to disable output
- Standard PS Off and DC OK signals
- High Efficiency 89% typical
- Standby output 5 VDC at 200 mA
- Variable speed internal fan

### SAFETY STANDARD APPROVALS



UL ES 60601-1, CSA C22.2 No. 60601-1  
File No. E178020 (Pending)

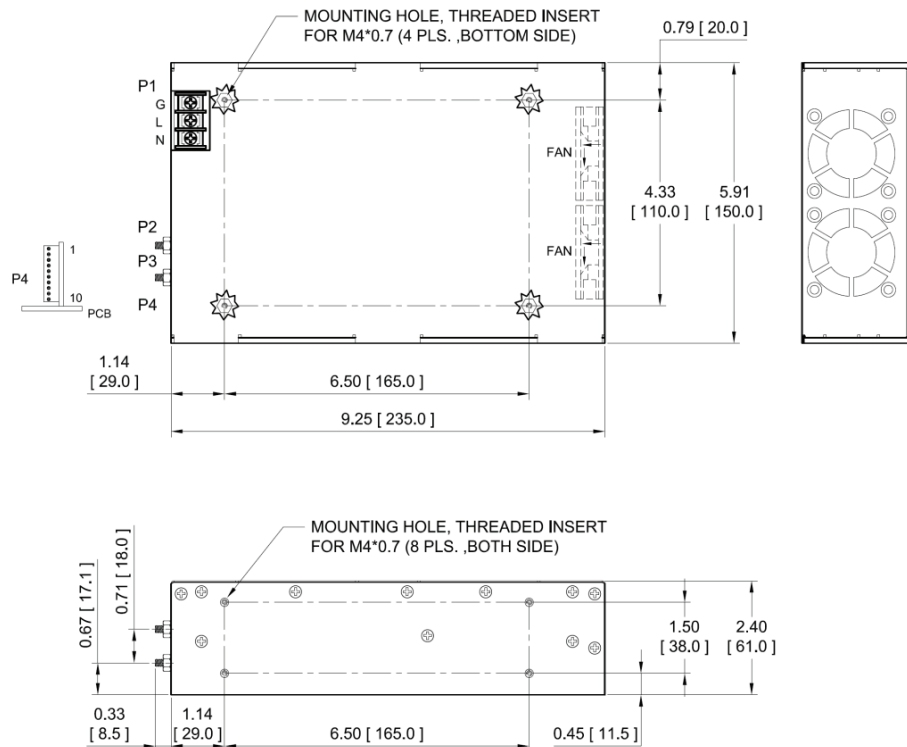


TÜV EN 60601-1 (Pending)

### GENERAL SPECIFICATIONS

Switching frequency:	40 KHz to 200 KHz
Efficiency:	See rating chart
Hold-up time:	10 ms minimum at 110 VAC
Line regulation:	±0.5% maximum at full load
Inrush current:	50 A @ 115 VAC, or 100 A @ 230 VAC, at 25°C cold start
Withstand voltage:	4000 VAC from input to output (2MOPP) 1500 VAC from input to ground (1MOPP) 1500 VAC from output to ground
MTBF:	300,000 hours at full load at 25°C ambient, calculated per MIL-HDBK-217F
EMC Performance	
EN55011:	Class B conducted, class B radiated
FCC:	Class B conducted, class B radiated
VCCI:	Class B conducted, class B radiated
EN61000-3-2:	Harmonic distortion, class A and D
EN61000-3-3:	Line flicker
EN61000-4-2:	ESD, ±8 KV air and ±6 KV contact
EN61000-4-3:	Radiated immunity, 3 V/m
EN61000-4-4:	Fast transient/burst, ±2 KV
EN61000-4-5:	Surge, ±1 KV diff., ±2 KV com
EN61000-4-6:	Conducted immunity, 3 Vrms
EN61000-4-8:	Magnetic field immunity, 3 A/m Voltage dip immunity
EN61000-4-11:	dip immunity

### MECHANICAL SPECIFICATIONS



**NOTES:**

1. Dimensions shown in inches [mm]
2. Tolerance 0.02 [0.5] maximum
3. Input connector P1 is Dinkle terminal P/N DT-4C-B01W-03, with nickel plated M3.5 screws or equivalent.
4. Output connectors P2 and P3 are for M5\*0.8 screw connections.
5. Output connector P4 is Molex header 22-05-7105 or equivalent, mating with Molex housing 50-37-5103 or equivalent.
6. Weight: 2.884 Kgs (6.35 lbs.) approx. for enclosed form.
7. Maximum penetration depth of fixing screws is 4 mm from the outer surface of chassis.

### PIN CHART

Connector	P1 (AC)			P2		P3	
PIN NO.	1	2	3	1	2	1	2
Polarity	Live	Neutral	Ground	+V1		V1 Return	

Connector	P4									
PIN NO.	1	2	3	4	5	6	7	8	9	10
Polarity	common Return	+V1 Sense	-V1 Sense	PFD	Inhibit	+5V Standby	DC OK	PS OFF	+12V FAN	FAN Return