

200 ~ 300 Watts Single/Quad Output Open Frame Type for Medical

FEATURES

- ◆ Low safety ground leakage current
- ◆ EN61000-3-2 class A and D compliant
- ◆ Power Factor 0.98 typical
- ◆ Power Fail Detect (PFD) signal
- ◆ Overvoltage & Short-circuit protection
- ◆ Remote sense on output #1 and output #2
- ◆ Remote inhibit - TTL high to disable output



SPECIFICATIONS

Input Voltage Range	90~264VAC
Input Current (rms)	4.7A Max.
Efficiency	70% min
Earth leakage/Touch current	300uA/100uA max. @ 264VAC/63Hz
Operating Temperature	0°C ~ +70°C (Derate from 100% load @ +50°C, linearly to 50% load @ 70°C)
Cooling	200 /250 /300 watts continuous output power at 35 CFM forced air cooling 100 /125 /150 watts at convention cooling
Storage Temperature	-40°C ~ 85°C
Relative Humidity	5% to 95% non-condensing
Protections	OVP, OCP & Short-circuit Protection
Withstand Voltage	5600 VDC from input to output (2 MOPP) 2100 VDC from input to ground (1 MOPP) 700 VDC from output to ground
Safety Standard	UL ES60601-1, CSA C22.2 No. 60601-1, CE
EMC Standard	EN55011 Class B EN61000-3-2,-3, EN61000-4-2, 3, 4, 5, 6, 8, 11

All Specifications are Typical at Nominal Line, full Load and 25°C. Unless Otherwise Noted.

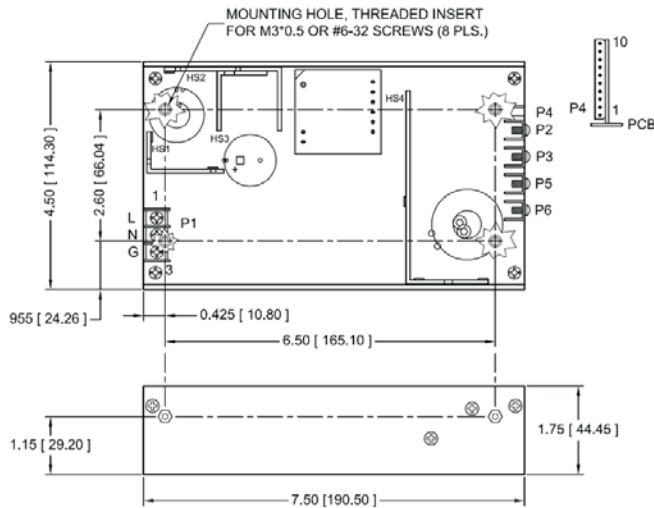
Model Number	Output #1				Output #2				Output #3				Output #4				Max. Output Power
	V1	Imin	Imax	Tol.	V2	Imin	Imax	Tol.	V3	Imin	Imax	Tol.	V3	Imin	Imax	Tol.	
FPM300-S033-x	3.3V	3.0A	60.0A	±3%													100W/200W
FPM300-S051-x	5.1V	3.0A	60.0A	±2%													150W/300W
FPM300-S120-x	12V	1.2A	25.0A	±2%													150W/300W
FPM300-S150-x	15V	1.0A	20.0A	±2%													150W/300W
FPM300-S240-x	24V	0.6A	12.5A	±2%													150W/300W
FPM300-S300-x	30V	0.5A	10.0A	±2%													150W/300W
FPM300-S480-x	48V	0.5A	6.30A	±2%													150W/300W
FPM300-Q040-3-x	3.3V	3.0A	35.0A	±2%	5.1V	2.0A	22A	±2%	12V	0A	4A	±4%	12V	0A	4A	±4%	150W/300W
FPM300-Q040-x	5.1V	2.0A	35.0A	±2%	12V	1.0A	10A	±2%	12V	0A	4A	±4%	5.1V	0A	4A	±4%	150W/300W
FPM300-Q041-x	5.1V	2.0A	35.0A	±2%	15V	0.8A	8A	±2%	15V	0A	4A	±4%	24V	0A	2.5A	±4%	150W/300W
FPM300-Q042-x	5.1V	2.0A	35.0A	±2%	12V	1.0A	10A	±2%	12V	0A	4A	±4%	12V	0A	4A	±4%	150W/300W
FPM300-Q045-x	5.1V	2.0A	35.0A	±2%	12V	1.0A	10A	±2%	12V	0A	4A	±4%	24V	0A	2.5A	±4%	150W/300W
FPM300-Q046-x	5.1V	2.0A	35.0A	±2%	12V	1.0A	10A	±2%	12V	0A	4A	±4%	15V	0A	4A	±4%	150W/300W
FPM300-Q047-x	5.1V	2.0A	35.0A	±2%	24V	0.5A	5A	±2%	12V	0A	4A	±4%	12V	0A	4A	±4%	150W/300W
FPM300-Q048-x	5.1V	2.0A	35.0A	±2%	24V	0.5A	5A	±2%	5.1V	0A	4A	±4%	15V	0A	4A	±4%	150W/300W
FPM300-Q049-x	5.1V	2.0A	35.0A	±2%	12V	1.0A	10A	±2%	5.1V	0A	4A	±4%	24V	0A	2.5A	±4%	150W/300W
FPM300-Q0410-x	24V	0.5A	6.30A	±2%	12V	1.0A	10A	±2%	5.1V	0A	4A	±4%	12V	0A	4A	±4%	150W/300W
FPM300-Q0411-x	24V	0.5A	6.30A	±2%	12V	1.0A	10A	±2%	5.1V	0A	4A	±4%	24V	0A	2.5A	±4%	150W/300W
FPM300-Q0412-x	24V	0.5A	6.30A	±2%	12V	1.0A	10A	±2%	12V	0A	4A	±4%	12V	0A	4A	±4%	150W/300W
FPM300-Q0413-x	24V	0.5A	6.30A	±2%	24V	0.5A	5A	±2%	5.1V	0A	4A	±4%	15V	0A	4A	±4%	150W/300W
FPM300-Q0414-x	24V	0.5A	6.30A	±2%	24V	0.5A	5A	±2%	12V	0A	4A	±4%	12V	0A	4A	±4%	150W/300W

- Note:
1. x = U for U-bracket, x = E for Enclosed
 2. All outputs are floating. They can be connected externally for positive or negative output.
 3. Output #1 & #2 can be adjusted within 5% of their nominal voltage.
 4. Output #3 & #4 can be adjusted within 15% of their nominal voltage.
 5. 300 watts for "E" version with cover and fan assembly, 150 watts for "U" version without moving air (maximum current of output #1 & #2 derated to 50%), or 300 watts with 35 CFM forced air provided by user.
 6. FPM300-S033-x is rated 200 watts with 35 CFM forced air cooling or 100 watts convection cooled. FPM300-Q40-3 is rated 250 watts with 35 CFM forced air cooling (maximum current of output #1 & #2 derated to 50%) or 125 watts convection cooled.
 7. Single output models may be operated at no-load. At no-load, output voltage tolerance increases to 10%
 8. 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 uF tantalum capacitor in parallel with a 0.1 uF ceramic capacitor across the output.

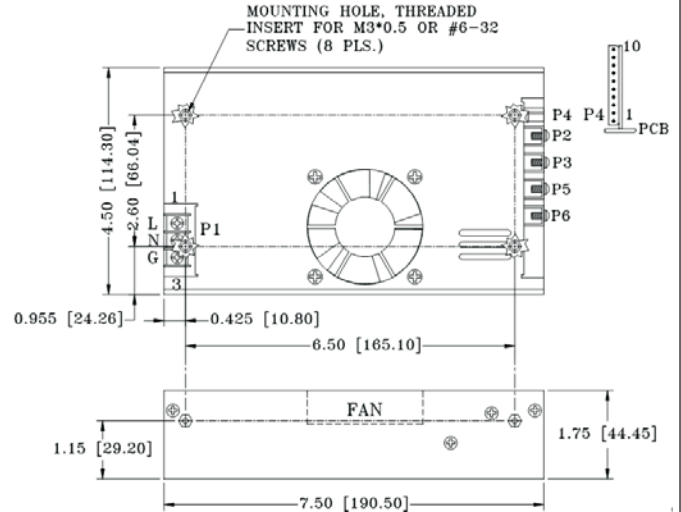
MECHANICAL DRAWING (mm)

Single Output Models

U-bracket Form

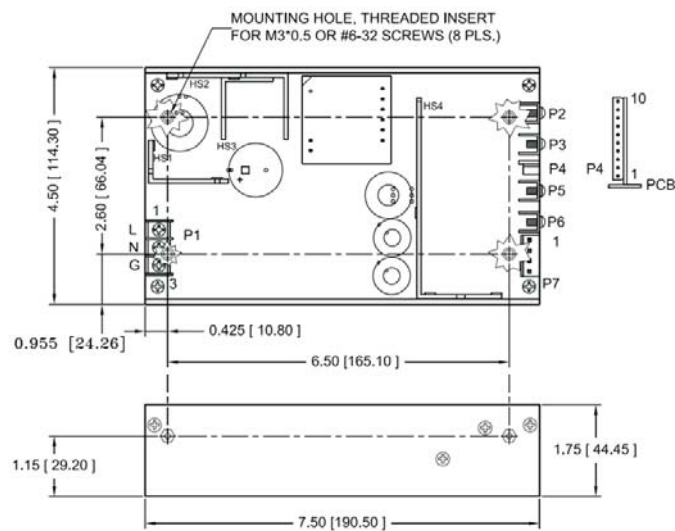


Enclosed Form

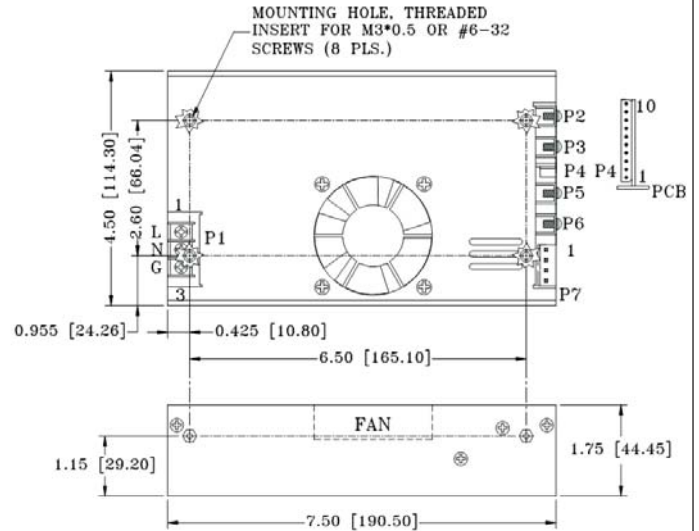


Multiple Output Models

U-bracket Form



Enclosed Form



PIN CHART

CONN PIN Output		P1 (AC)			P2	P3	P5	P6	P7			
		1	2	3					1	2	3	4
Single		Live	Neutral	Ground	+V1		V1 Return		N.A.			
Quad		Live	Neutral	Ground	+V1	V1 Return	+V2	V2 Return	+V3	V3 Return	+V4	V4 Return

Output	CONN PIN	P4									
		1	2	3	4	5	6	7	8	9	10
Single		Signal Common Return	+V1 Sense	-V1 Sense	PFD	Inhibit +V	N.C.	N.C.	N.C.	Fan Return	+12V Fan
Quad		Signal Common Return	+V1 Sense	-V1 Sense	PFD	Inhibit +V	N.C.	+V2 Sense	-V2 Sense	Fan Return	+12V Fan

Note:

1. Dimensions shown in inches [mm] ; Tolerance 0.02 [0.5] maximum
2. Input connector P1 is Dinkle DT-35-B01W-03 with M3, nickel-plated screws
3. Connector P4 mates with Molex housing 50-37-5103 and pins 5263.
4. Connectors P2, P3, P5 and P6: M3*0.5 screw connections
5. Output connector P7 mates with Molex housing 09-50-3041 and Molex 2878 series crimp terminal.
6. Weight: 1.10 Kgs. (2.42 lbs.) approx. for U-bracket form, 1.24 Kgs. (2.73 lbs.) approx. for Enclosed form.
7. Maximum penetration depth of fixing screws is 4 mm from the outer surface of chassis.