

150 ~ 200 Watts Single/Dual/Triple/Quad Output Open Frame Type for Medical

FEATURES

- ◆ Low safety ground leakage current
- ◆ EN55011 Class B
- ◆ Power Factor 0.98 typical
- ◆ Power Fail Detect (PFD) signal
- ◆ Short-circuit protection
- ◆ Optional cover and fan assembly
- ◆ Remote inhibit - TTL high to disable output



SPECIFICATIONS

Input Voltage Range	90~264VAC
Input Current (rms)	3.2A Max.
Efficiency	70% min
Earth leakage/Touch current	220uA/100uA max. @ 264VAC/63Hz
Operating Temperature	0°C ~ +70°C (derated linearly from 100% load @ 50°C to 50% load @ 70°C)
Cooling	10.8CFM forced air provide on "E" version 25CFM forced air to be provided for "U" version by user.
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.

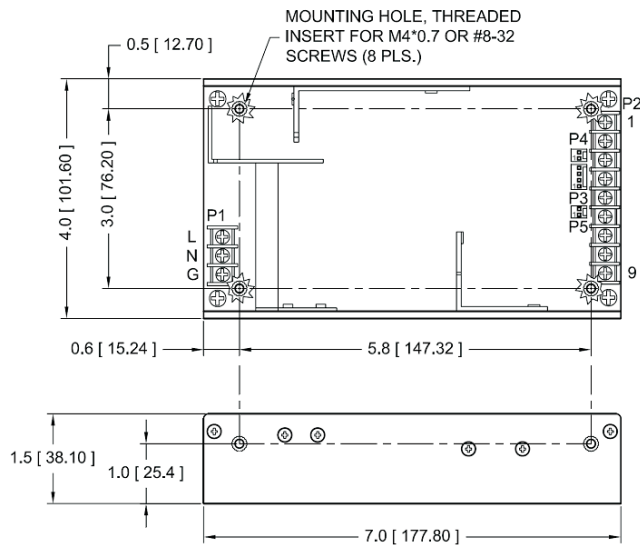
Model Number	Output #1				Output #2				Output #3				Output #4				Max. Output Power
	V1	Imin	Imax	Tol.	V2	Imin	Imax	Tol.	V3	Imin	Imax	Tol.	V3	Imin	Imax	Tol.	
FPM201-S033-z	3.3V	3.0A	46.0A	±3%													75W/150W
FPM201-S051-z	5.1V	3.0A	35.0A	±2%													87.5W/175W
FPM201-S120-z	12V	1.2A	16.7A	±2%													100W/200W
FPM201-S150-z	15V	1.0A	13.4A	±2%													100W/200W
FPM201-S240-z	24V	0.6A	8.40A	±2%													100W/200W
FPM201-S300-z	30V	0.5A	6.70A	±2%													100W/200W
FPM201-S480-z	48V	0.5A	4.20A	±2%													100W/200W
FPM201-D023-z	+5.1V	3.0A	30.0A	±2%	+12V	0A	8A	±4%	-5V	0A	6A	±4%					100W/200W
FPM201-D024-z	+5.1V	3.0A	30.0A	±2%	+15V	0A	6A	±4%	-12V	0A	4A	±4%					100W/200W
FPM201-D025-z	+5.1V	3.0A	30.0A	±2%	+24V	0A	4A	±4%	-15V	0A	4A	±4%					100W/200W
FPM201-D027-z	+12V	1.0A	8.70A	±2%	+24V	0A	4A	±4%	-12V	0A	4A	±4%					100W/200W
FPM201-T030-z	+5.1V	3.0A	30.0A	±2%	+12V	0A	8A	±4%	24V	0A	4A	±4%					100W/200W
FPM201-T031-z	+5.1V	3.0A	30.0A	±2%	+12V	0A	8A	±4%	-5V	0A	6A	±4%					100W/200W
FPM201-T032-z	+5.1V	3.0A	30.0A	±2%	+15V	0A	6A	±4%	-12V	0A	4A	±4%					100W/200W
FPM201-T033-z	+5.1V	3.0A	30.0A	±2%	+15V	0A	6A	±4%	-12V	0A	4A	±4%					100W/200W
FPM201-T036-z	+5.1V	3.0A	30.0A	±2%	+12V	0A	8A	±4%	24V	0A	4A	±4%					100W/200W
FPM201-Q040-z	+5.1V	3.0A	30.0A	±2%	+12V	0A	8A	±4%	-12V	0A	4A	±4%	5V	0A	6A	±4%	100W/200W
FPM201-Q041-z	+5.1V	3.0A	30.0A	±2%	+15V	0A	6A	±4%	-15V	0A	4A	±4%	24V	0A	4A	±4%	100W/200W
FPM201-Q042-z	+5.1V	3.0A	30.0A	±2%	+12V	0A	8A	±4%	-12V	0A	4A	±4%	12V	0A	4A	±4%	100W/200W
FPM201-Q044-z	+5.1V	3.0A	30.0A	±2%	+12V	0A	8A	±4%	-15V	0A	4A	±4%	15V	0A	4A	±4%	100W/200W
FPM201-Q045-z	+5.1V	3.0A	30.0A	±2%	+12V	0A	8A	±4%	-12V	0A	4A	±4%	24V	0A	4A	±4%	100W/200W
FPM201-Q040-3-z	+3.3V	3.0A	30.0A	±3%	+5.1V	0A	8A	±4%	-12V	0A	4A	±4%	12V	0A	4A	±4%	87.5W/175W

- Note:
1. z = U for U-bracket, z = E for Enclosed
 2. Peak output current is 12A on +12V, 9A on +15V and 6A on +24V.
 3. Output #4 is floating. It can be connected externally for positive or negative output.
 4. 200 watts for "E" version with a cover and fan assembly. 100 watts for "U" version without moving air (maximum current of output #1 & #2 derated to 50%) or 200 watts with 25 CFM forced air provided by user.
 5. When the remote Sense facility is not used, +Sense must be connected to +V, and -Sense to return, on P2 connector.
 6. All models may be operated at no-load. At no-load, output voltage tolerance increases to 10%.
 7. 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.

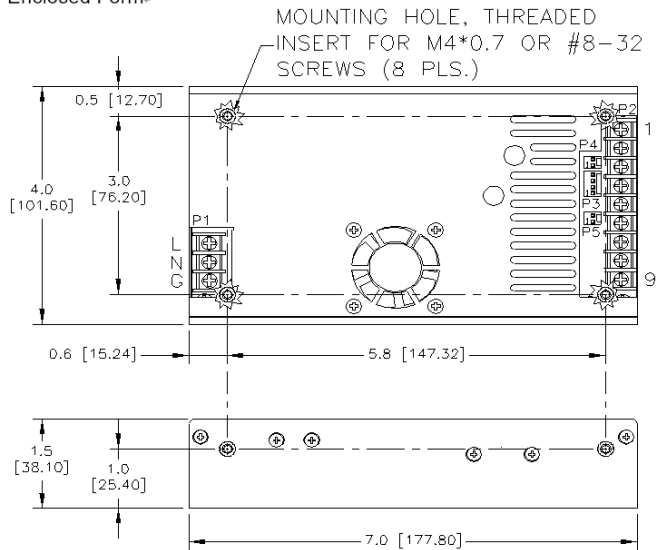
MECHANICAL DRAWING (mm)

Single Output Models.

U-bracket Form.

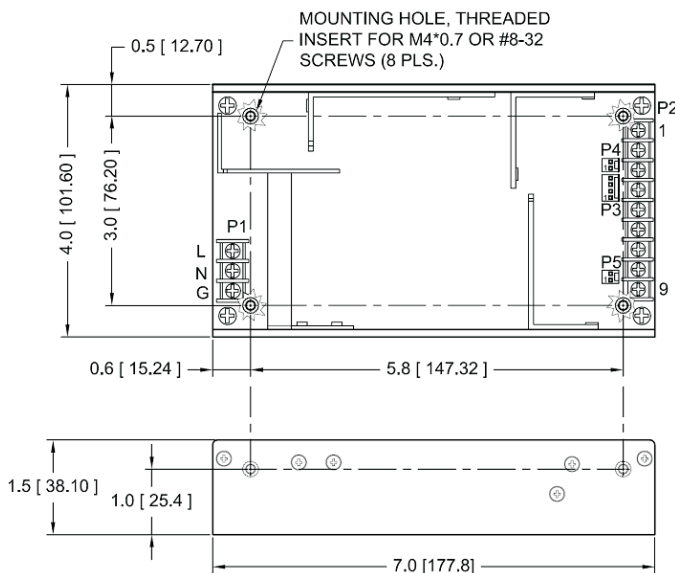


Enclosed Form.

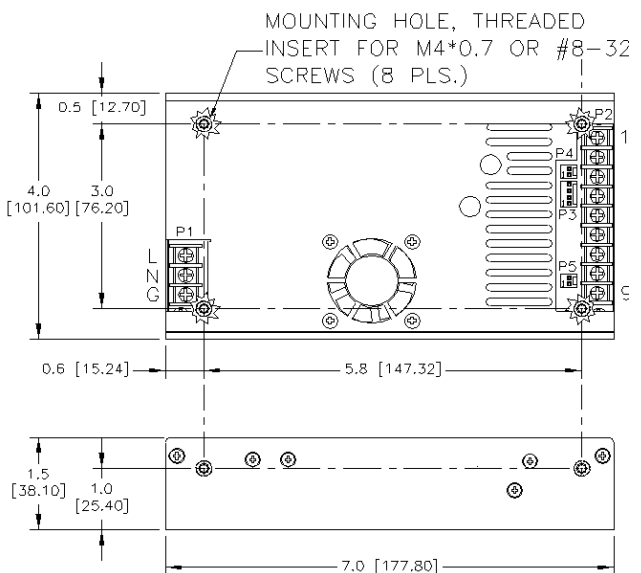


Multiple Output Models.

U-bracket Form.



Enclosed Form.



PIN CHART

Output \ CONN PIN	P2									P3				P5	
	1	2	3	4	5	6	7	8	9	1	2	3	4	1	2
Single	-Sense	Com. Ret.	Com. Ret.	Com. Ret.	Com. Ret.	+V1	+V1	+V1	+Sense	Fan +V	Com. Ret.	Com. Ret.	PFD	Inhibit +V	Inhibit -V
Dual	V1	V1	Com. Ret.	Com. Ret.	Com. Ret.	V2	N.C.	N.C.	N.C.	Fan +V	Com. Ret.	Com. Ret.	PFD	Inhibit +V	Inhibit -V
Triple	V1	V1	Com. Ret.	Com. Ret.	Com. Ret.	V2	V3	N.C.	N.C.	Fan +V	Com. Ret.	Com. Ret.	PFD	Inhibit +V	Inhibit -V
FPM201-T036-x	V1	V1	Com. Ret.	Com. Ret.	Com. Ret.	V2	N.C.	V3 Return	+V3	Fan +V	Com. Ret.	Com. Ret.	PFD	Inhibit +V	Inhibit -V
Quad	V1	V1	Com. Ret.	Com. Ret.	Com. Ret.	V2	V3	V4 Return	+V4	Fan +V	Com. Ret.	Com. Ret.	PFD	Inhibit +V	Inhibit -V

Note:

- Dimensions shown in inches [mm] ; Tolerance 0.02 [0.5] maximum
- Input connector P1 is Dinkle DT-35-B01W-03. Output connector P2 is Dinkle DT-35-B01W-09. Screws are M3, nickel plated.
- Connector P3 mates with Molex housing 22-01-1043 and Molex 40445 series crimp terminal.
- Connectors P4 and P5 mate with Molex housing 22-01-1023 and Molex 40445 series crimp terminal.
- P4 is for DC fan, 12 V/0.2 A rated, Pin 1 +V and Pin 2 -V; except 24 V/0.2 A rated for models FPM201-D025-x and FPM201-D027-x and 5 V/0.38 A rated for models FPM201-Q040-3.
- Weight: 820 grams (1.8 lbs.) approx. for U-bracket form, 960 grams (2.1 lbs.) approx. for enclosed form.
- Maximum penetration depth of fixing screws is 4 mm from the outer surface of chassis.