72 ~ 110 Watts Single/Dual/Triple/Quad Output **Open Frame Type for Medical**





FEATURES

◆ Small size, light weigh ◆ EN55011 & FCC Class B ◆ OVP & OCP protection ◆ Input surge current protection ◆ Low safety ground leakage current

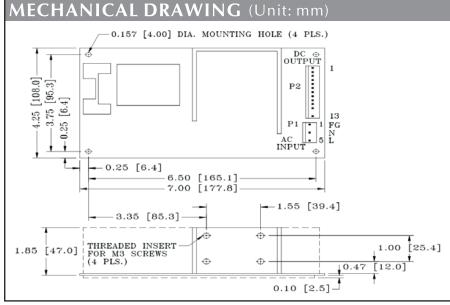
SPECIFICATIONS
Input Voltage Range 85~264VAC
Input Current (rms) 3.2A Max.
Efficiency 70% min. on signle output model with Vo ≧12V, 65% min. on the others
Earth leakage/Touch current
Operating Temperature
(derated linearly from 100% load @ 50° C to 50° M load @ 70° C)
Storage Temperature40°C \sim 85°C

Relative Humidity 5% to 95% non-condensing
Protections OVP, OCP Protection
Withstand Voltage
Cooling72-110 watts continuous output power at 25 CFM forced air cooling
60-80 watts at convection cooling
Safety StandardUL 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		
Model Number	V1	Imin	lmax	Tol.	V2	Imin	lmax	Ipeak	Tol.	V3	Imin	Imax	Tol.	V3	Imin	lmax	Tol.	Power
FPM110-S033	3.3V	0A	22.0A	±3%														60W/72W
FPM110-S050	5.0V	0A	22.0A	±3%														80W/110W
FPM110-S120	12V	0A	9.0A	±2%														80W/110W
FPM110-S150	15V	OA	7.5A	±2%														80W/110W
FPM110-S240	24V	0A	4.5A	±2%														80W/110W
FPM110-S300	30V	0A	3.6A	±3%														80W/110W
FPM110-D023	+5.1V	0A	10.0A	±3%	+12V	0A	5.0A	9.0A	±3%									80W/110W
FPM110-T031	+5.1V	0A	10.0A	±3%	+12V	0A	5.0A	9.0A	±3%	-12V	0A	1A	±4%					80W/110W
FPM110-T032	+5.1V	0A	10.0A	±3%	+15V	0A	4.0A	7.5A	±3%	-15V	0A	1A	±4%					80W/110W
FPM110-Q040	+5.1V	0A	10.0A	±3%	+12V	0A	5.0A	9.0A	±3%	-12V	0A	1A	±4%	-5V	0.0A	1.0A	±4%	80W/110W
FPM110-Q041	+5.1V	OA	10.0A	±3%	+15V	0A	4.0A	7.5A	±3%	-15V	0A	1A	±4%	+24V	0.0A	1.0A	±4%	80W/110W
FPM110-Q042	+5.1V	0A	10.0A	±3%	+12V	0A	5.0A	9.0A	±3%	-12V	0A	1A	±4%	+12V	0.0A	1.0A	±4%	80W/110W
FPM110-Q045	+5.1V	0A	10.0A	±3%	+12V	0A	5.0A	9.0A	±3%	-12V	0A	1A	±4%	+24V	0.0A	1.0A	±4%	80W/110W
FPM110-Q045-1	+5.1V	2A	10.0A	±3%	+12V	0A	5.0A	9.0A	±3%	-12V	0A	1A	±4%	+24V	1.5A	3.0A	±4%	80W/110W
FPM110-Q045-2	+5.1V	0A	10.0A	±3%	+24V	0A	3.0A	5.0A	±3%	-12V	0A	1A	±4%	-12V	0.0A	1.0A	±4%	80W/110W
FPM110-Q046	+5.1V	0A	10.0A	±3%	+15V	0A	4.0A	7.5A	±3%	-15V	0A	1A	±4%	-5V	0.0A	1.0A	±4%	80W/110W

- * The output #1 of model FPM110-Q045-1A needs a minimum current of 2A to support the other outputs at their maximum rated load.
- * 110 watts maximum at 25 CFM forced air cooling or 80 watts maximum at convection cooling, except model FPM110-\$033 which is rated at 60 watts maximum at convection cooling or 72 watts maximum at 25 CFM forced air cooling.
- * Peak output current with 10% maximum duty cycle for less than 60 seconds. Total peak power must not exceed 130 watts.
 * All models may be operated at no-load. At no-load, output voltage tolerance increases to 10%.
- * 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



OUTPUT CONNECTOR PIN CHART

PIN NO	SINGLE	DUAL	TRIPLE	QUAD
1,2,3	+V1	V1	V1	V1
4,5	V1 return	Common Return	Common Return	Common Return
6,7	V1 return	Common Return	Common Return	Common Return
8,9	+V1	V2	V2	V2
10	PFD	PFD	PFD	PFD
11	N.C.	N.C.	V3	V3
12	KEY	KEY	KEY	KEY
13	N.C.	N.C.	N.C.	V4

P1: Molex header 09-65-2058 or equivalent, mating with Molex housing 09-50-1051 or equivalent. P2 mates with Molex 09-50-3131 or equivalent.

- 1. The copper pad of the mounting hole near P1 is for system grounding through a metallic stand-off to system chassis.
- 2. Dimensions in inches(mm)
- 3. Tolerance: 0.02 [0.5] max.
- 4. 1.Weight: 640 grams (1.408 lbs.)