

650 ~ 700 Watts Single/Dual/Triple Output U-bracket Type for Medical

FEATURES

- ◆ EN61000-3-2 class A and D compliant
- ◆ En55011 Class B conducted, Class A radiated
- ◆ Power Factor 0.98 typical
- ◆ Power Fail Detect (PFD) signal
- ◆ Overvoltage, Thermal, 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)	10A Max.
Ripple & noise	2% peak to peak maximum on 3.3V & 5.1V 1% peak to peak maximum on other voltage outputs
Efficiency	80% min
Earth leakage/Touch current	240uA/100uA max. @ 264VAC/63Hz
Operating Temperature	0°C ~ +70°C (derated linearly from 100% load @ 50°C to 50% load @ 70°C)
Fan power	12V at 400mA for "U" version ; 12V at 100mA for "E" version
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 conducted, Class A radiated 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				Max. Output Power
	V1	Imin	Imax	Tol.	V2	Imin	Imax	Tol.	V3	Imin	Imax	Tol.	
FPM650-S120-z	12V	0A	54.2A	±2%									325W/650W
FPM650-S150-z	15V	0A	43.4A	±2%									325W/650W
FPM650-S240-z	24V	0A	27.1A	±2%									325W/650W
FPM650-S270-z	27V	0A	24.1A	±2%									325W/650W
FPM650-S300-z	30V	0A	21.7A	±2%									325W/650W
FPM650-S360-z	36V	0A	18.1A	±2%									325W/650W
FPM650-S480-z	48V	0A	14.6A	±2%									350W/700W
FPM650-D020-z	24V	1.5A	18.0A	±2%	12V	1.2A	22A	±5%					325W/650W
FPM650-D021-z	24V	1.5A	18.0A	±2%	15V	1.0A	18A	±5%					325W/650W
FPM650-D022-z	48V	0.75A	9.0A	±2%	24V	0.6A	12A	±5%					325W/650W
FPM650-D023-z	48V	0.75A	9.0A	±2%	12V	1.2A	22A	±5%					325W/650W
FPM650-D024-z	48V	0.75A	9.0A	±2%	15V	1.0A	18A	±5%					325W/650W
FPM650-T030-z	24V	1.5A	18.0A	±2%	12V	1.2A	22A	±5%	3.3V	0A	10A	±3%	325W/650W
FPM650-T031-z	24V	1.5A	18.0A	±2%	15V	1.0A	18A	±5%	3.3V	0A	10A	±3%	325W/650W
FPM650-T032-z	24V	1.5A	18.0A	±2%	12V	1.2A	22A	±5%	5.1V	0A	10A	±3%	325W/650W
FPM650-T033-z	24V	1.5A	18.0A	±2%	15V	1.0A	18A	±5%	5.1V	0A	10A	±3%	325W/650W
FPM650-T034-z	48V	0.75A	9.0A	±2%	12V	1.2A	22A	±5%	3.3V	0A	10A	±3%	325W/650W
FPM650-T035-z	48V	0.75A	9.0A	±2%	15V	1.0A	18A	±5%	3.3V	0A	10A	±3%	325W/650W
FPM650-T036-z	48V	0.75A	9.0A	±2%	12V	1.2A	22A	±5%	5.1V	0A	10A	±3%	325W/650W
FPM650-T037-z	48V	0.75A	9.0A	±2%	15V	1.0A	18A	±5%	5.1V	0A	10A	±3%	325W/650W

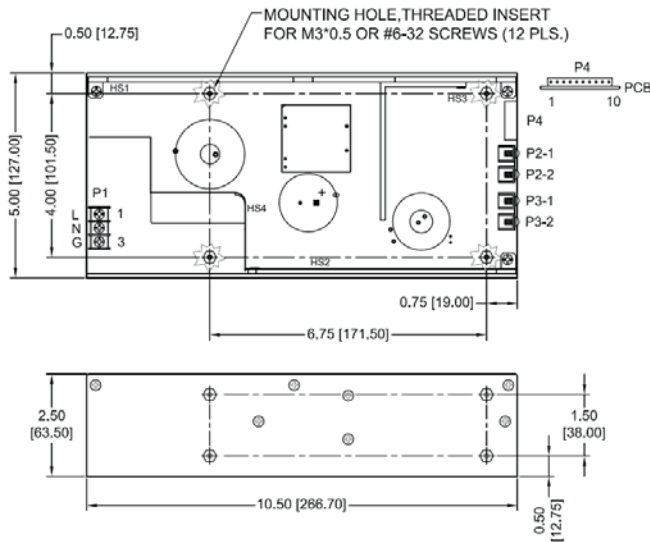
Note:

1. z = U for U-bracket, z = E for Enclosed
2. All outputs are floating. They can be connected externally for positive or negative output.
3. Output #1 can be adjusted within +/-5% of their nominal voltage.
4. Output #3 can be adjusted within +/-15% of their nominal voltage.
5. 650-700 watts for "E" version with cover and fan assembly. 325-350 watts for "U" version without moving air (maximum current of output #1 and #2 derated to 70%), or 650-700 watts with 50 CFM forced air provided by user.
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

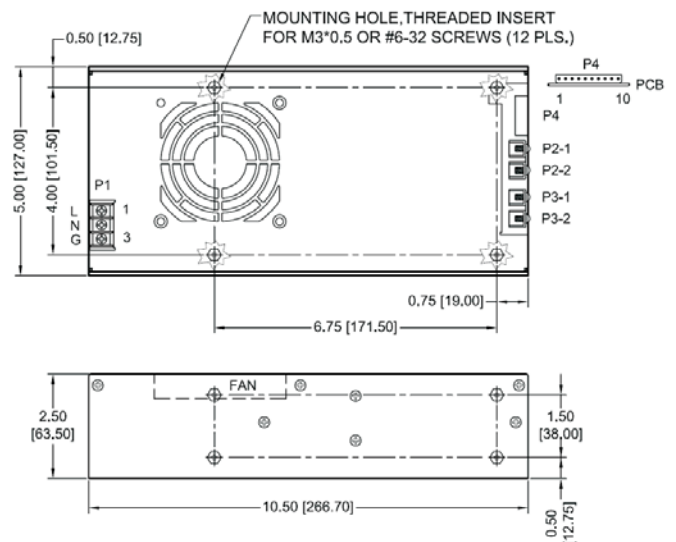
MECHANICAL DRAWING (mm)

Single Output Models

U-bracket Form

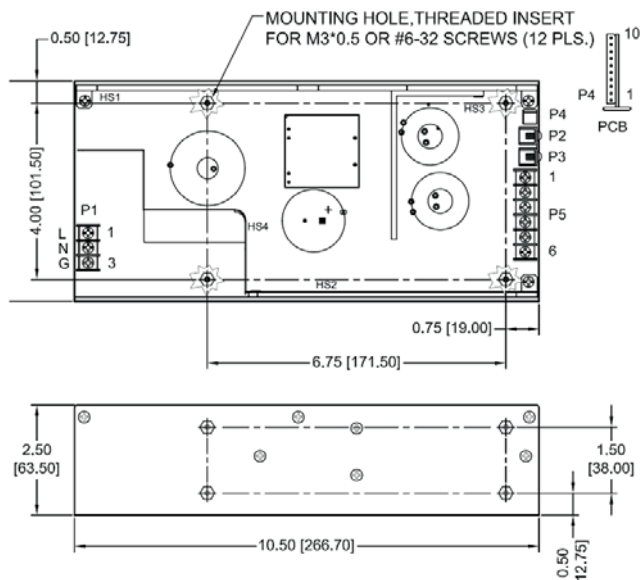


Enclosed Form

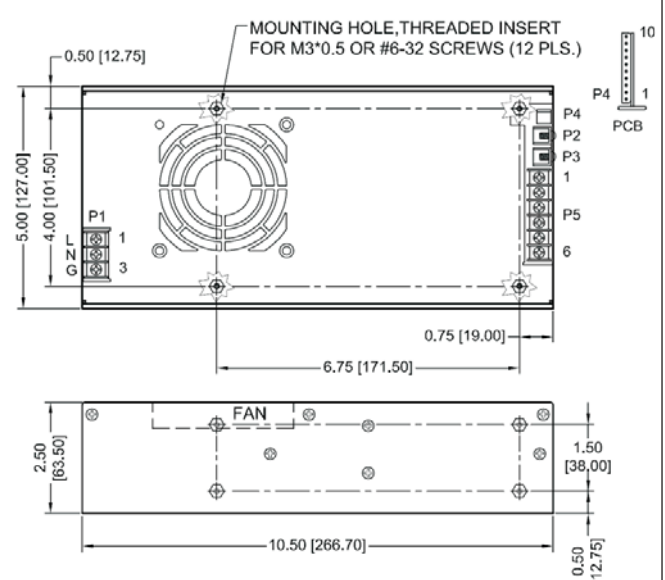


Multiple Output Models

U-bracket Form



Enclosed Form



PIN CHART

Output	CONN PIN	P1 (AC)			P2	P3	P5					
		1	2	3			1	2	3	4	5	6
Single		Live	Neutral	Ground	+V1	V1 Return	N.A.					
Dual		Live	Neutral	Ground	+V1	V1 Return	+V2	V2 Return	N.A.		N.A.	
Triple		Live	Neutral	Ground	+V1	V1 Return	+V2	V2 Return	+V3	V3 Return		

Output	CONN PIN	P4									
		1	2	3	4	5	6	7	8	9	10
Single		PFD Return	+V1 Sense	-V1 Sense	PFD	Inhibit +V	Inhibit -V	N.C.	N.C.	Fan Return	+12V Fan
Dual		PFD Return	+V1 Sense	-V1 Sense	PFD	Inhibit +V	Inhibit -V	+V2 Sense	-V2 Sense	Fan Return	+12V Fan
Triple		PFD Return	+V1 Sense	-V1 Sense	PFD	Inhibit +V	Inhibit -V	+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-4C-B01W-03 with M3, nickel-plated screws.
3. Connector P4 mates with Molex housing 50-37-5103 and pins 5263.
4. Connector P2-1, P2-2, P3-1 & P3-2: M3*0.5 screw connections.
5. 1.Connectors P2, P3: M3*0.5 screw connections.
6. Output connector P5 is Dinkle DT-35-B01W-06. Screws are M3, nickel plated.
7. Weight: 2.0 Kgs. (4.4 lbs.) approx. for U-bracket form, 2.2 Kgs. (4.84 lbs.) approx. for enclosed form
8. Maximum penetration depth of fixing screws is 4 mm from the outer surface of chassis.