

300/400 Watts Single Output AC-DC U-bracket Type Medical Power

FEATURES

- ♦ 100-240 VAC input with active PFC
- ♦ Operation altitude up to 5000meters
- ♦ Inhibit - TTL low to disable output
- ♦ Power Factor 0.98 typical
- ♦ Less than 300uA leakage current
- ♦ EN55011/55022 class B emissions
- ♦ Standard PS Off and DC OK signals)
- ♦ BF Class insulation

SPECIFICATIONS

Input Voltage	90-264 VAC
Input Frequency	47-63Hz
Input Current	4.2A max.
Inrush Current	20A/115VAC or 40A/230VAC at 25°C cold start
Earth Leakage/Touch Current	300uA/100uA max. at 264 VAC/63Hz
Line regulation	0.5% max. at full load
Remote Sense	Compensation for cable losses up to 0.5V
Withstand voltage	5656VDC from input to output
Hold Up Time	12ms min. at 110VAC & 400W
Operating Temperature	-10 to +70°C
	Derate from 100% at +50°C linearly to 50% at +70°C
Storage Temperature / Humidity	-40 to +85°C / 5% to 95%
Fan Power	12V at 250mA max.
Safety Standard	UL ES 60601-1/CSA-C22.2 No. 60601-1, CE
EMC Standard	EN55011, EN55022 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.



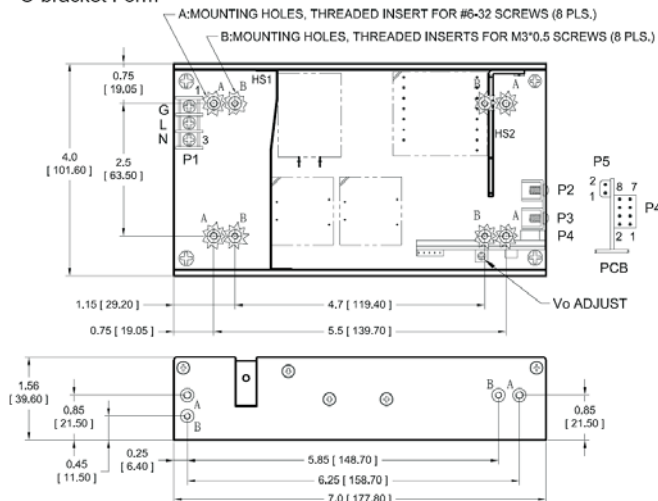
Model Number	Output Voltage	Output Current			Output Max. Watts	EFF. 115V/230V
		min.	convection	7CFM		
FPM400-S120-z	12VDC	0.1A	25.0A	33.34A	300W/400W	90/92%
FPM400-S150-z	15VDC	0.1A	20.0A	26.67A	300W/400W	90/92%
FPM400-S180-z	18VDC	0.1A	16.67A	22.23A	300W/400W	91/92%
FPM400-S240-z	24VDC	0.1A	12.5A	16.67A	300W/400W	89/91%
FPM400-S280-z	28VDC	0.1A	10.72A	14.29A	300W/400W	89/91%
FPM400-S360-z	36VDC	0.1A	8.34A	11.12A	300W/400W	90/92%
FPM400-S480-z	48VDC	0.1A	6.25A	8.34A	300W/400W	90/93%

Notes:

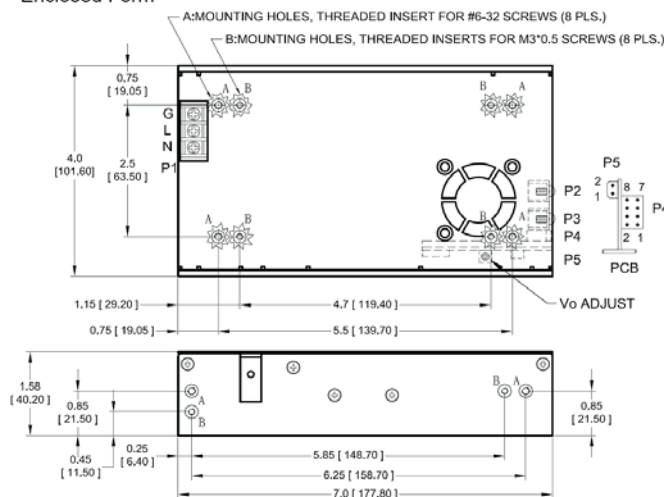
1. z = U for U-Bracket ; z = E for Enclosed
2. 300 W without moving air or 400 W with 7 CFM forced air provided by user for "U" version, 400W for "E" version with cover and fan assembly
3. Ripple and noise is maximum peak to peak voltage value measured at output within 20 MHz bandwidth, at rated line voltage and output load ranges, and with a 10 uF tantalum capacitor in parallel with a 0.1 uF ceramic capacitor across the output.
4. All models may be operated at no-load without damage. At no load, output voltage fluctuates beyond 5% due to the burst-mode operation of the control IC in them for energy saving.

MECHANICAL DRAWING (Unit: mm)

U-bracket Form



Enclosed Form



PIN CHART

Connector	P1 (AC)			P2	P3	P5	
PIN NO.	1	2	3			1	2
Polarity	Ground	Live	Neutral	+V1	Common Return	+12V Fan	Common Return

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

NOTES:

1. Dimensions shown in inches [mm] ; Tolerance 0.02 [0.5] maximum
2. Input connector P1 is Dinkle terminal P/N DT-35-B01W-03, with nickel plated M3 screws.
3. P2, P3: M4 x 0.7 screw connectors
4. Connector P4: Molex header 87833-08 or equivalent, mating with Molex housing 51110-0850 or equivalent.
5. Fan connector P5: JST header S2B-ZR-3.4 or equivalent, mating with JST housing ZHR-2 or equivalent.
6. Weight: 1.0 Kg (2.23 lbs.) approx. for U-bracket form, 1.14 Kgs. (2.52 lbs.) approx. for enclosed form
7. Maximum penetration depth of fixing screws is 4 mm from the outer surface of chassis.