

600-650 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 high to disable output
- ♦ Compliant with RoHS requirements
- ♦ Less than 300uA leakage current
- ♦ EN55011 class B emissions
- ♦ Standby output 5VDC at 200mA
- ♦ BF Class insulation

SPECIFICATIONS

Input Voltage	90-264 VAC
Input Frequency	47-63Hz
Input Current	8.4A 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 & 650W
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 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.



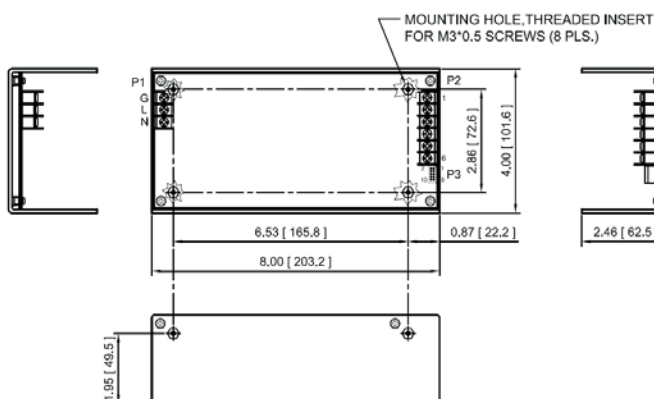
Model Number	Output Voltage	Output Current			Output Max. Watts	EFF. 115V/230V
		min.	30CFM	Peak		
FPM651-S120-z	12VDC	0.1A	50.0A	55.0A	600W	88/90%
FPM651-S150-z	15VDC	0.1A	40.0A	44.0A	600W	88/90%
FPM651-S180-z	18VDC	0.1A	36.12A	40.0A	600W	88/90%
FPM651-S240-z	24VDC	0.1A	27.09A	30.0A	600W	88/90%
FPM651-S280-z	28VDC	0.1A	23.22A	25.5A	600W	89/91%
FPM651-S300-z	30VDC	0.1A	21.67A	23.8A	600W	89/91%
FPM651-S320-z	32VDC	0.1A	20.32A	22.4A	600W	89/91%
FPM651-S340-z	34VDC	0.1A	19.12A	21.0A	600W	89/91%
FPM651-S360-z	36VDC	0.1A	18.06A	20.0A	600W	89/91%
FPM651-S480-z	48VDC	0.1A	13.55A	15.0A	600W	89/91%
FPM651-S570-z	57VDC	0.1A	11.41A	12.5A	600W	89/91%
FPM651-S580-z	58VDC	0.1A	12.21A	12.3A	600W	89/91%

Notes:

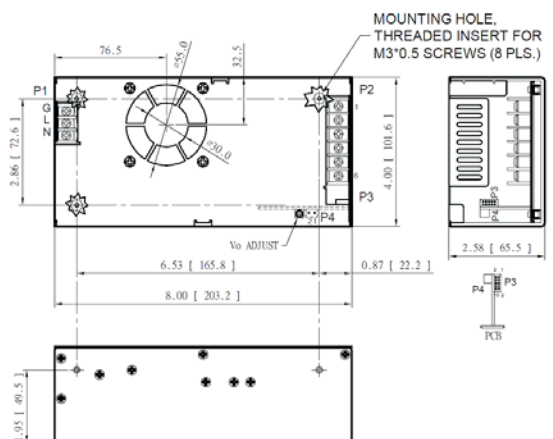
1. z = U for U-Bracket ; z = E for Enclosed
2. All models may be operated at no-load without damage. At no load, output voltage fluctuates beyond 5% due to the burst-mode operation of the control IC in them for energy saving
3. 600-650 W for "E" version, or with 30 CFM forced air provided by user for "U" version.
4. 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 μ F tantalum capacitor in parallel with a 0.1 μ F ceramic capacitor across the output.
5. Peak output current with 10% duty cycle maximum for less than 15 seconds, average power not to exceed maximum power rating.

MECHANICAL DRAWING (Unit: mm)

U-bracket Form



Enclosed Form



PIN CHART

Connector	P1 (AC)			P2						P4	
PIN NO	1	2	3	1	2	3	4	5	6	1	2
Polarity	Ground	Live	Neutral	+V1		Common Return				+12V Fan	Common Return

Connector	P3									
PIN NO	1	2	3	4	5	6	7	8	9	10
Polarity	+V1 Sense	-V1 Sense	PFD	Common Return	N.A.	N.A.	Inhibit	N.A.	+5V Standby	+5V Standby Return

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. Output connector P2 is Dinkle terminal P/N DT-4N-B01W-06, with nickel plated M3.5 screws
4. Output connector P3 is JST header S10B-PHDSS or equivalent, mating with JST housing PHDR-10VS or equivalent.
5. Fan connector P4: JST header S2B-ZR-3.4 or equivalent, mating with JST housing ZHR-2 or equivalent.
6. Weight: 1.8 Kgs [3.97 lbs.] approx. for U-bracket form, 2.0 Kgs. (4.41 lbs.) approx. for enclosed form
7. Maximum penetration of fixing screws is 4 mm from the outer surface of chassis.