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THE POWER PROFESSIONALS

PFT150-xxSX-W6

150Watt AC/DC Power Supply



FEATURES

- Efficiency : > 93% typical @full load
- No Load Consumption <150mW
- 4.1"X2.1" footprint
- Altitude during operation: ITE up to 5000m, Medical below 3000m
- Touch current: < 100uA @ 264VAC
- Black Anodized Chassis
- Max Output 170 Watts
- 3 years Warranty

		UNIT	
Input	Voltage/Freq	V	AC90V - 264V 47 / 63Hz
	Current (rms).	A	2.8A@115VAC; 1.4A @230 VAC Max.
	Power Factor	-	> 0.95 @115VAC; > 0.90 @230VAC @full load
	Inrush Current	A	< 50A peak @115VAC; < 100A peak @230VAC cold start @25°C
	Leakage Current	uA	Touch current < 100uA @264VAC.

			PFT150-12SX-W6	PFT150-24SX-W6	PFT150-48SX-W6
Output	Nominal Voltage	VDC	12	24	48
	Efficiency (Typ)	%	93	93	93
	Current @115 VAC (w/o fan) @230 VAC	A	12.5 14.16	6.25 7.08	3.12 3.54
	Regulation	%	+/-3%	+/-3%	+/-3%
	Ripple Noise	mV	180 max	280 max	380 max
	Short circuit protection		Auto Recovery		
	Holdup-Time	mS	> 10ms typical 80% @full load, 115VAC		
	Switching frequency		80 to 100Khz @ full load		

Protection	Over Voltage	Latching type, AC Recycle
	Over Power	105% to 150% maximum rating, Auto-recovery
	MTBF	> 350,000 hours @full load and 25°C ambient temperature per Telcordia (Bellcore TR-332).
Safety	Safety Performance	IEC 62368-1 : 2014 (Second Edition)EN 62368-1 : 2014 + A11UL 62368-1, 2nd Edition, 2014-12-01
	EMC	EN60601-1-2, EN55011 Class B, EN55032 Class B, EN55035 FCC Part 15 Class B, FCC Part 18 Class B CE



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16170 Vineyard Blvd, Suite 180 Morgan Hill, CA 95037 <http://www.eta-usa.com>
Toll-free (US only): 800-ETA-POWR (800-382-7697) Telephone: 408 778-2793 FAX: 408-779-2753



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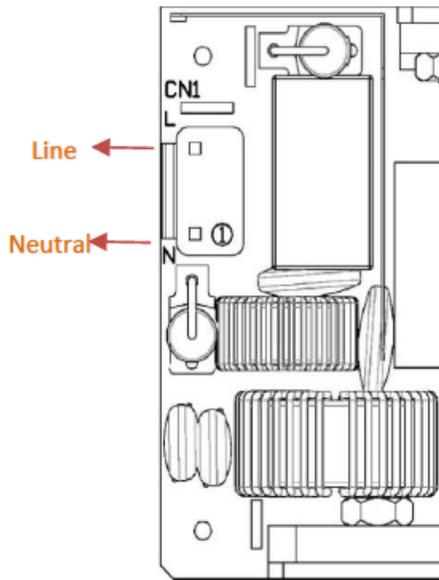
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	Insulation Level Dielectric (Hi Pot)	Primary to Secondary : 4242Vdc (3000Vac) Reinforced Primary to Ground (Mounting holes or Frame GND) 2121Vdc (1500Vac) Basic:
Environment	Operating Temperature	-20 to +70°C (refer to derating curve)
	Storage Temperature	-20 ~ +85°C,
	Operating Humidity	Non-condensing 10% to 95%
MTBF		> 350,000 hours @full load and 25°C ambient temperature per Telcordia (Bellcore TR-332).
Size	Dimensions Weight	L120.7 × W63.5 × H38.1 mm (4.75" x 2.50" x 1.5") 0.27kgs - 0.60 lbs

*Ripple and noise are measured at oscilloscope 20MHz bandwidth by a 10uF electrolytic capacitor and a 0.1uF ceramic capacitor in parallel at output connector

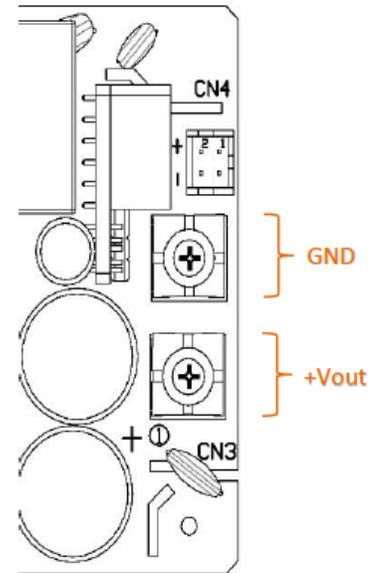
Input/Output Connections

AC Input



AC Input (CN1) JST B2P3-VH Pitch: 3.96mm Mate: JST VAR-2	
Reference	Function
Pin 1	Neutral
Pin 2	Line

DC Output



DC Output (CN3) Terminal Ring for M3	
Reference	Function
#1	+Vout
#2	GND



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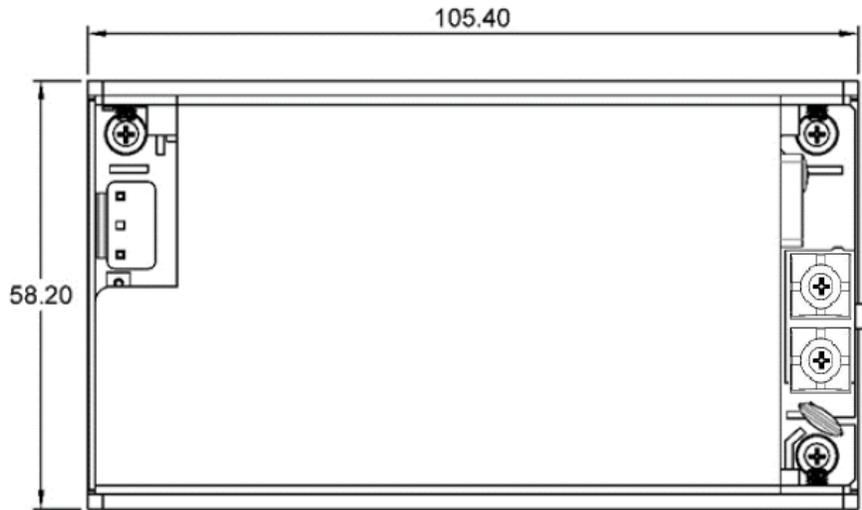
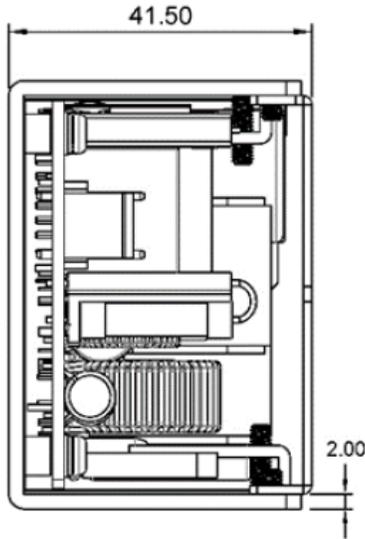
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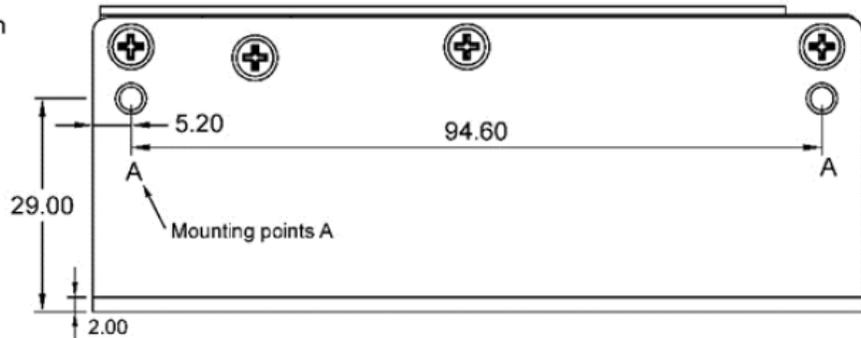
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Dimensional Drawing



Dimension : L105.4xW58.2xH41.5mm
Tolerance +/-0.5mm



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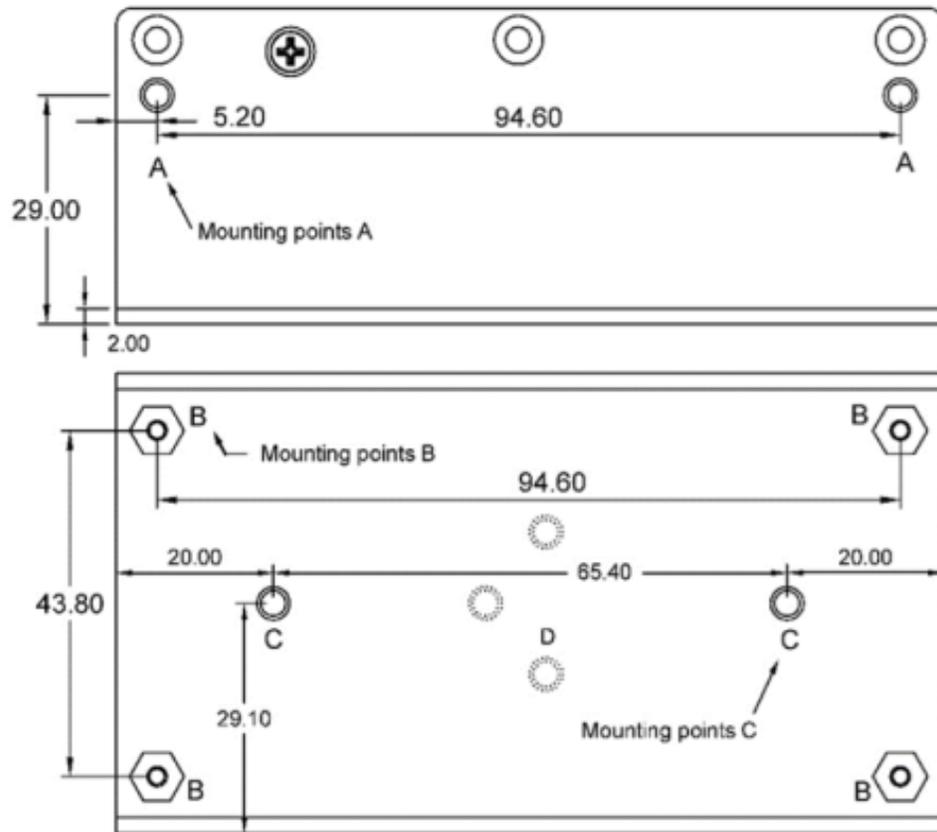
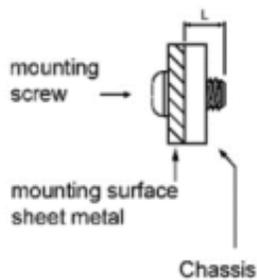


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Mounting notes

L : max penetration depth



Installation Notes

Power supply must be securely connected to protective earth ground in the final system assembly for compliance with SAFETY and EMI performance.

- Mounting points A, M3X0.5 thread, Max. Penetration depth 5mm.
- Mounting points B, M3X0.5 thread, Max. Penetration depth 2.5mm.
- Mounting points C, M3X0.5 thread, Max. Penetration depth 3mm.
- Mounting points D, M3X0.5 optional DIN-Rail type holes.
- Mounting points E, Fixing holes $\varnothing 3.5$ mm to accommodate M3 screws. For you design application.
- Mounting points A/B/C Recommended torque for mounting screw : 1-2 Kgf-cm.
- Mounting points E Recommended torque for mounting screw : 2-3 Kgf-cm.



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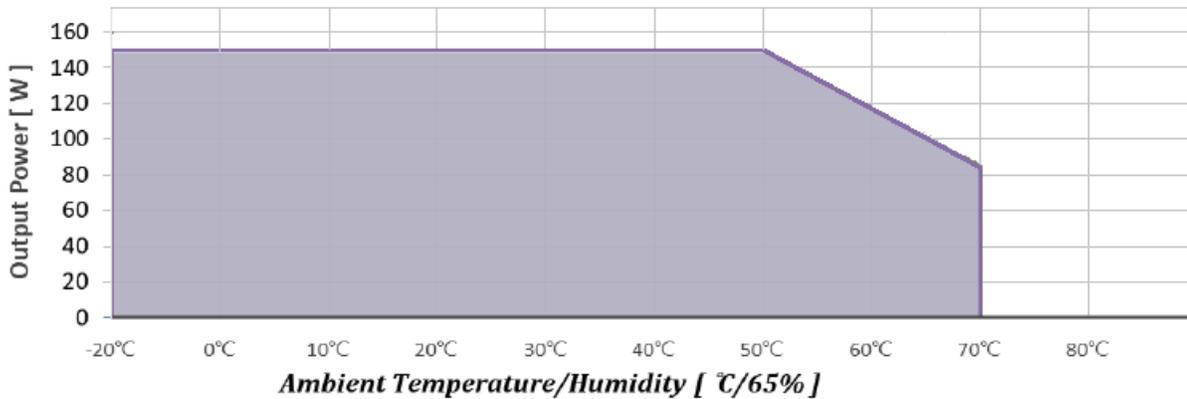
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DERATING CURVE

AC Input 120VAC

Output Power vs. Ambient Temp. Derating Curve



AC Input 230VAC

Output Power vs. Ambient Temp. Derating Curve

