



# ETA-USA

THE POWER PROFESSIONALS

## PFT300-xxSX-W6

## 300Watt AC/DC Power Supply



### FEATURES

- Efficiency : > 93% typical @full load
- No Fan
- No Load Consumption <500mW
- 6" X 4" footprint
- Altitude during operation: ITE up to 5000m , Medical below 3000m
- Touch current: < 100uA @ 264VAC
- Black Anodized Chassis
- 3 years Warranty

		UNIT	
Input	Voltage/Freq	V	AC90V - 264V 47 / 63Hz
	Current (rms).	A	8A@115VAC; 4A @230 VAC Max.
	Power Factor	-	> 0.95 @115VAC; > 0.90 @230VAC @full load
	Inrush Current	A	< 40A peak @115VAC; < 80A peak @230VAC cold start @25°C
	Leakage Current	uA	Touch current < 100uA @264VAC.

			PFT300-12SX-W6	PFT300-24SX-W6	PFT300-28SX-W6	PFT300-36SX-W6	PFT150-48SX-W6
Output	Nominal Voltage	VDC	12	24	28	36	48
	Efficiency (Typ)	%	93	93	93	93	93
	Current @115 VAC (w/o fan) @230 VAC	A	25	12.50	10.72	8.34	6.25
		A	28.33	14.17	12.14	9.44	7.08
	w/ 30CFM fan	A	50	25	21.43	16.67	
	Regulation	%	+/-3%	+/-3%	+/-3%	+/-2%	+/-2%
	Ripple Noise	mV	180 max	240 max	280 max	300 max	300 max
	Short circuit protection		Auto Recovery				
	Holdup-Time	mS	> 10ms typical 80% @full load, 115VAC				
	Switching frequency		65 to 75Khz @ full load				

Protection	Over Voltage	Latching type, AC Recycle
	Over Power	105% to 150% maximum rating, Auto-recovery
	MTBF	> 200,000 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; IEC 60601-1:2005+A1:2012; EN 60601-1:2006+A1:2013; ANSI/AAMI ES60601-1:2005/(R)2012+A1:2012, C1:2009/(R)2012+A2:2010/(R)2012; CSA C22.2 NO.



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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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		60601-1:14, 3 <sup>rd</sup> edition	
<b>EMC</b>		EN60601-1-2, EN55011 Class B, EN55032 Class B, EN55035 FCC Part 15 Class B, FCC Part 18 Class B CE; EN 60601-1-2:2015; EN 55011:2009+A1:2010; FCC 47 CFR Part	
<b>Insulation Level Dielectric (Hi Pot)</b>		Meets both ITE and Medical Requirement Isolation Voltage                      Insulation/MOPP	
	Primary to Secondary	4242Vdc ( 3000Vac)	Reinforced
<b>ITE</b>	Primary to Ground	2121Vdc (1500Vac)	Basic
	Secondary to Ground	2121Vdc (1500Vac)	Basic
<b>Medical</b>	Primary to Secondary	5656Vdc (4000Vac)	2 MOPP
	Primary to Ground:	2121Vdc (1500Vac)	1 MOPP
	Secondary to Ground	2121Vdc (1500Vac)	1 MOPP
<b>Environment</b>	<b>Operating Temperature</b>	-20 to +70°C ( refer to derating curve)	
	<b>Storage Temperature</b>	-20 ~ +85°C,	
	<b>Operating Humidity</b>	Non-condensing 10% to 95%	
<b>MTBF</b>		>200,000 hours @full load and 25°C ambient temperature per Telcordia (Bellcore TR-332).	
<b>Size</b>	<b>Dimensions</b>	L152.4 × W101.6 × H43.5 mm (6.00" x 4.00" x 1.72")	
	<b>Weight</b>	0.70 kgs. (1.55 lbs)	

\*

1. 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
2. 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
3. The switching frequency of this series is set within 65 to 75KHz at full load
4. The output voltage is set by manufacturer



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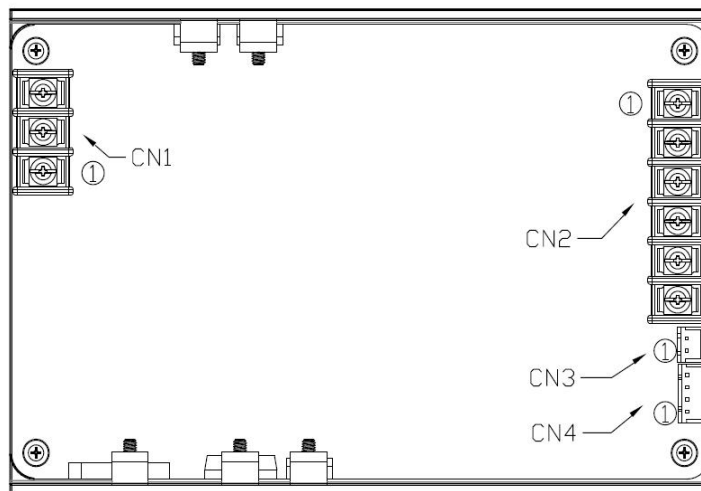


## Input/Output Connections

### AC Input

**CN1 : Input Connector**  
**Terminal Block Type**  
3-Pole Terminal block ( pitch : 8.25mm )  
Rate 20A/300V or equivalent

Pin #	Signal
1	AC Line
2	AC Neutral
3	Frame Ground



### DC Output

**CN2 : Main Output Connector**  
**Terminal Block Type**  
6-Pole Terminal block ( pitch : 8.25mm )  
Rate 20A/300V or equivalent

Pin #	Signal
1	GND
2	GND
3	GND
4	+Vout
5	+Vout
6	+Vout

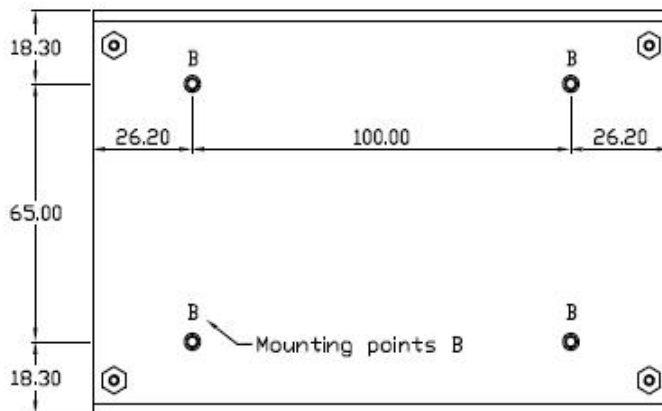
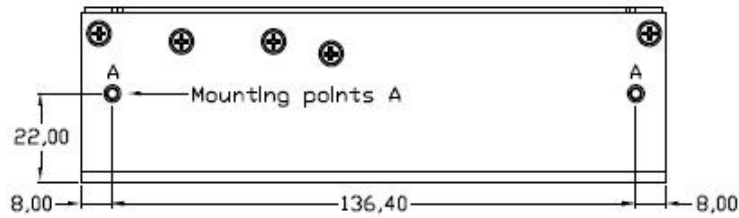
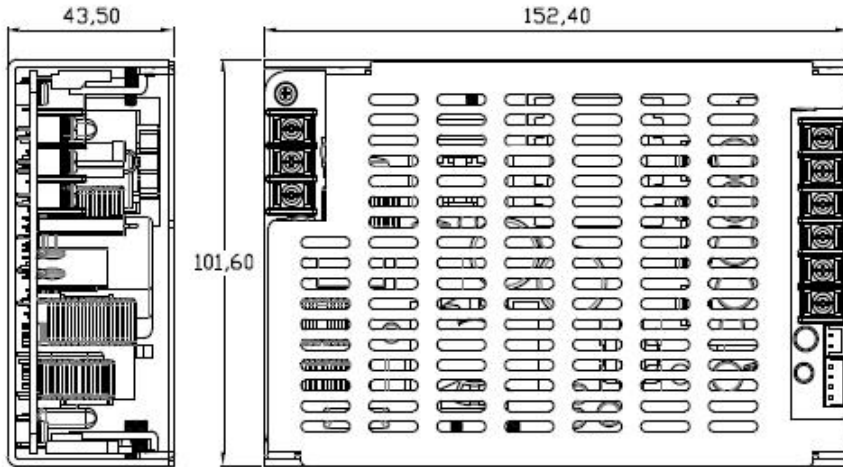




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## Dimensional Drawing



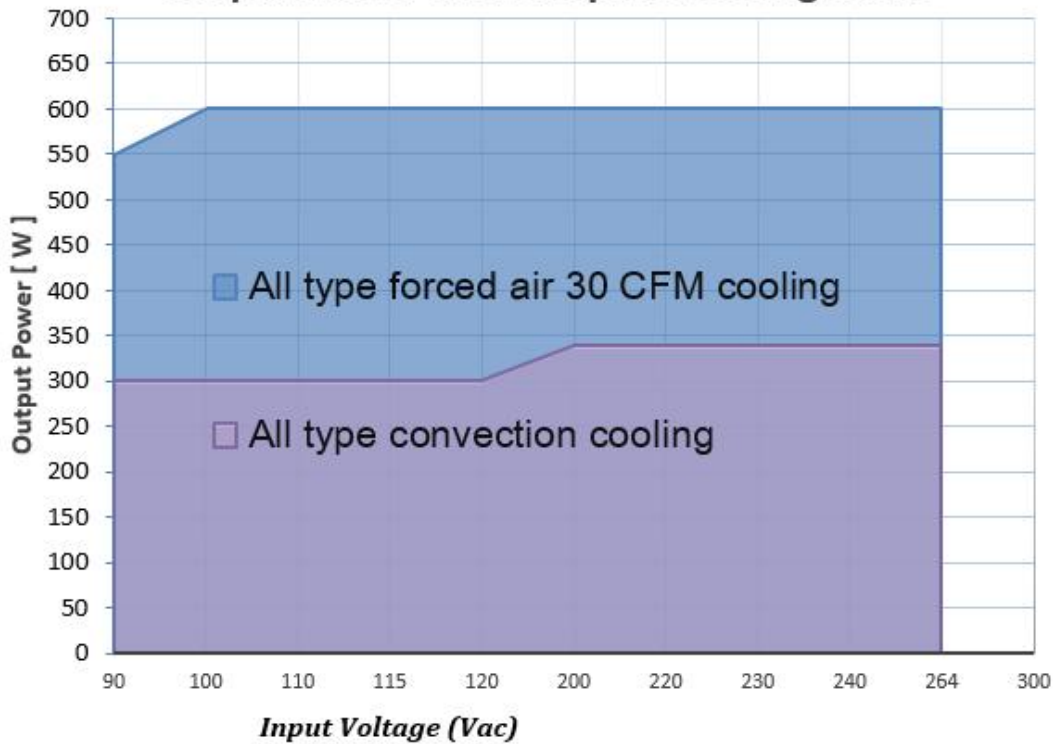
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## DERATING CURVE

### Output Power vs. AC Input Derating Curve



### Output Power vs. Ambient Temp. Derating Curve

