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THE POWER PROFESSIONALS

ZTMF200-SX-W 200-280 Watt AC/DC Power Supply



FEATURES

- Efficiency : > 91% typical @full load, 230VA
- leakage current < 100uA @264VA
- ITE 60950-1, 62368-1 & Medical 60601-1 approvals.
- High Power density, 280W in 5" x 3.28" footprint.
- Medical applications Protection: Means of Patient Protection (MOPP)
- Altitude during operation: ITE up to 5000m, Medical Below 3000m.
- Main output and Standby output Power ON LED indicators.
- 2 years Warranty



		UNIT	
INPUT	Voltage/Freq	V	AC90V - 264V 47 / 63Hz
	Current (rms).	A	3.5A @115VAC; 2A @230VAC max
	Power Factor	-	> .95 @ 115vac; > .90@230vac @ full load
	Inrush Current	A	<30A peak @115VAC; <60A peak @230VAC cold start @25
	Leakage Current	uA	< 100uA @264VA

		ZTMF200-12SX-W	ZTMF200-24SX-W	ZTMF200-28SX-W	
OUTPUT	Nom Voltage	VDC	12	24	28
	Efficiency typ	%	89	90	91
	Current Convection	A	16.66	8.33	7.14
	Forced Air	A	23.33	11.66	10
	Regulation		+/-3%	+/-3%	+/-2%
	Ripple Noise (v1)	mV	150 max	240 max	280max
	Standby (v2)		5V /0.5A	5V /0.5A	5V /0.5A
	Fan output (v3)	mV	12V /0.3A	12V /0.3A	12V /0.3A



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16170 Vineyard Blvd, Suite 180 Morgan Hill, CA 95037 <http://www.eta-usa.com>
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		ZTMF200-36SX-W	ZTMF200-48SX-W	ZTMF200-54SX-W	
OUTPUT	Nom Voltage	VDC 36	48	54	
	Efficiency typ	% 90	91	91	
	Current Convection	A 5.55	4.16	3.7	
	Forced Air	A 7.77	5.83	5.18	
	Regulation	+/-2%	+/-2%	+/-2%	
	Ripple Noise (v1)	mV 300 max	300 max	400 max	
	Standby (v2)	5V /0.5A	5V /0.5A	5V/0.5A	
	Fan output (v3)	mV 12V /0.3A	12V /0.3A	12V/0.3A	
	Total Power Conv cool	W	200W		
	Total Power 18cfm Forced Air	W	280W		
	Holdup-Time	mS	> 10ms typical @full load, 115VA		

Protection	Over Voltage	Latching type, AC Recycle	
	Over Current	105% to 150% maximum rating, Auto-recovery	
Emission	EMI/EMC	IEC60601-1-2 Ed4:2014, IEC60601-1-2 Ed4:2015, EN55024, EN55011 Class B, EN55032 Class B, FCC Part 15 Class B, FCC Part 18 Class B, CE	
Safety		UL60601-1 3.1rd , Edition, UL UL60950-1, UL62368-1, EN60601-1 3.1Rd Edition, TUV EN60950-1, TUV EN62368-1, IEC EN60601-1 3.1rd Edition, CB IEC 60950-1, CB IEC 62368-1	
Environment	Operating temp/humid	-20 ~ +70°C, 0 ~ 90% RH(Non condensing)	
	Storage temp/humid	-20 ~ +85°C,	
Size	MM/G	127 X 83.2 X 39 9(5" X 3.28" X 1.56")	500 grams
MTBF		250,000 hrs	

- 5Vsb meet ErP 0.5W @ No load
- Remote control (Inhibit) function
- All models are equipped with 5Vsb & 12V fan outputs
- Ripple and noise are measured at oscilloscope 20MHz bandwidth by a 47uF electrolytic capacitor and a 0.1uF ceramic capacitor in parallel at output connector.



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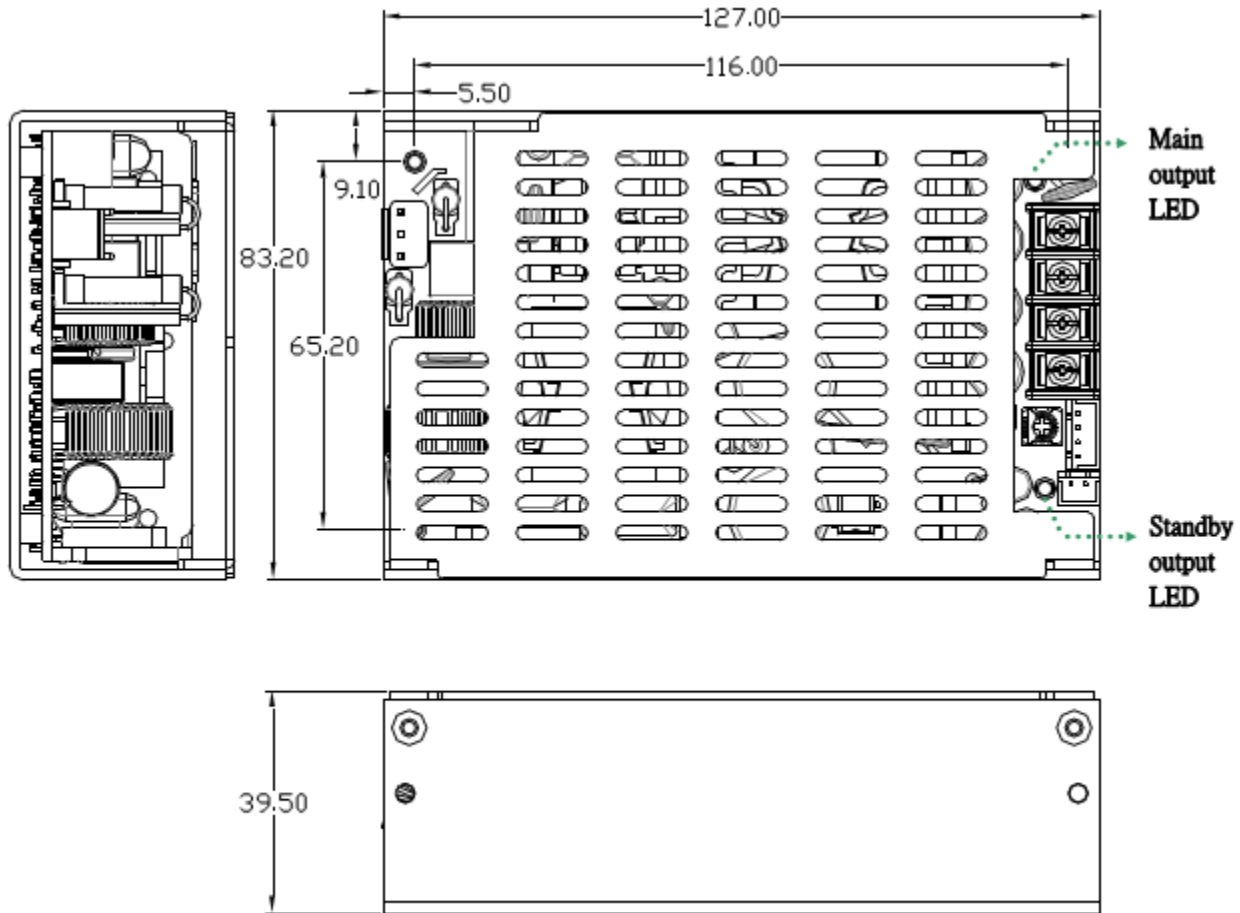
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DIMENSIONAL DRAWING



Dimension : L127 ×W83.2 ×H39.5mm (5" x 3.28" x 1.56")

NOTE: Tolerance ±0.5mm(0.02")



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Connection drawing below

CN1: Input Connector

JST B2P3-VH pitch: 3.96mm or equivalent,
mates with JST VAR-2 or equivalent

Pin #	Signal
1	AC Line
2	AC Neutral

CN2: FAN Output Connector

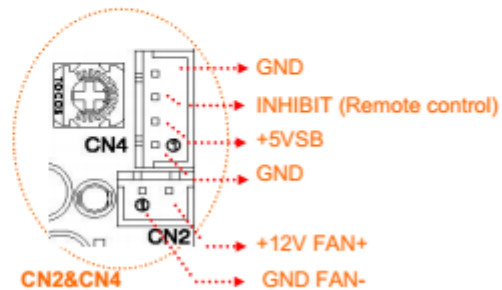
JST B2B-XH-A pitch: 2.5mm or equivalent,
mates with JST XHP-2 or equivalent

Pin #	Signal
1	GND FAN-
2	+12V FAN+

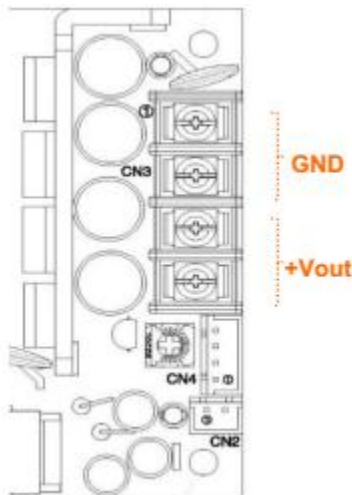
CN4: Remote control & Standby supply

JST B4B-XH-A pitch: 2.5mm or equivalent,
mates with JST XHP-4 or equivalent

Pin #	Signal
1	GND
2	+5VSB
3	INHIBIT (Remote control)
4	GND



INHIBIT→ Logic level HIGH (5V) or Floating : Enable, Logic level LOW : Disable



CN3: Main Output Connector

Terminal Block Type

4-Pole Terminal block pitch: 8.25mm ,
rate 20A/300V or equivalent

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





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DERATING CURVE AND FAN PLACEMENT



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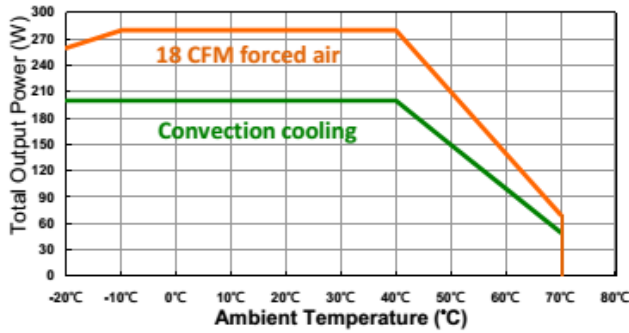


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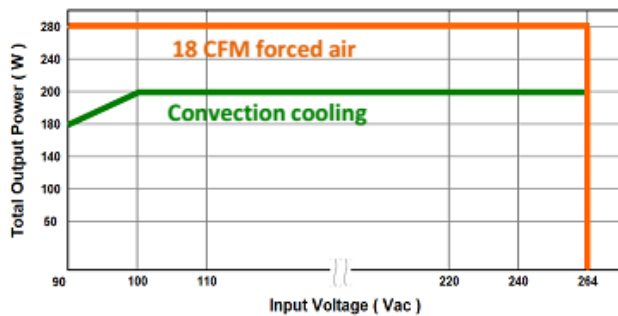
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DERATING CURVE

Power Derating Curve

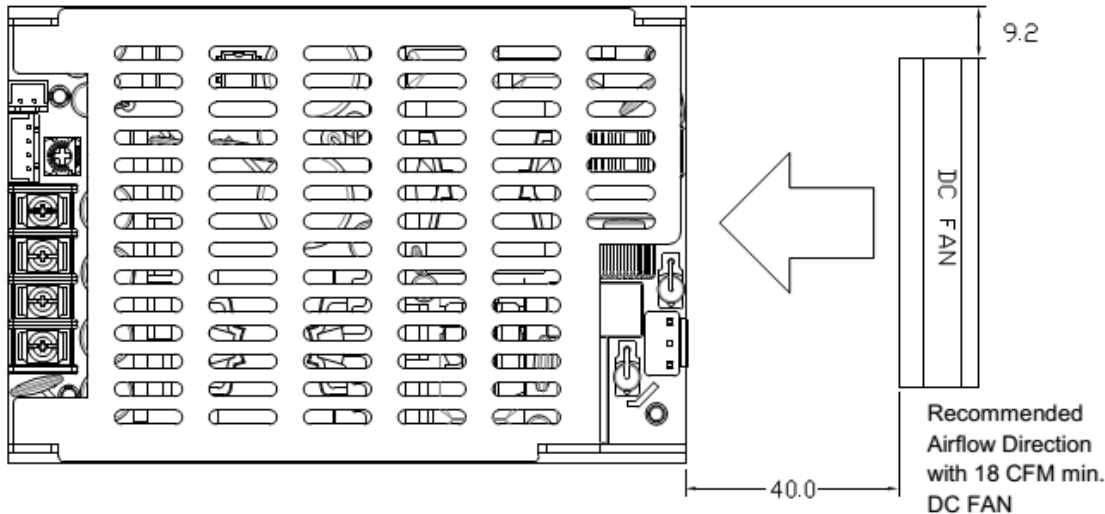


convection cooling and
18CFM forced air cooling
Derate linearly 2.5% per °C from 41 to 70°C



Convection cooling total output 200W
Derate linearly 1% per Vac from 100 to 90Vac

DC FAN Recommended Direction



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