



ETA-USA

The Power Professionals

ZMP-SX-F-TD

500W



FEATURES

- Current sharing ("D"), up to 4 units can be paralleled within 10% accuracy at full load
- Short circuit protection
- Over voltage protection features
- Over load protection
- Dual ITE and Medical Safety Approval
- Remote inhibit function
- **2 year warranty**

FC  CE **RoHS**

MODEL/CHANNEL		Unit	ZMP500 12SX-F-TD	ZMP500 24SX-F-TD	ZMP500 30SX-F-TD	ZMP500 36SX-F-TD
OUTPUT	Output Voltage	Vdc	12	24	30	36
	Ripple and Noise(max.) *3	mV	120	240	300	360
	Maximum Load	A	41.67	20.84	16.67	13.89
MODEL/CHANNEL		Unit	ZMP500 48SX-F-TD	ZMP500 54SX-F-TD	ZMP500 57SX-F-TD	
OUTPUT	Output Voltage	Vdc	48	54	57	
	Ripple and Noise(max.) *3	mV	480	540	570	
	Maximum Load	A	10.42	9.26	8.78	
INPUT	Input Voltage Range	Vac	90-264VAC			
	Efficiency (typical) *2	%	> 83% typical @full load, 115VAC			
	Frequency	A	47-63Hz			
	Inrush Current	V	< 25A peak @115VAC; < 50A peak @230VAC cold start @25°C			
	Input Current	A	6A @115VAC; 3A @230VAC max.			
	Power Factor	-	> 0.95 @115VAC; > 0.90 @230VAC @full load			
	Hold Up Time	ms	> 10ms typical 50% load, 115VAC			
	Leakage current	-	< 300uA @264VAC			
	Maximum power	-	500 Watts with 30CFM forced air cooling (U-channel type)			
	Hold-up time	-	> 20ms typical @360 watt load, 115VAC			
	Current share (Single wire)	-	Up to 4 units can be paralleled [Optional] within 10% accuracy at full load.			



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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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500W

	MODEL/CHANNEL	Unit	
Environmental Agencies	Safety	-	CSA-C22.2 No.60601-1 3.1rd Ed EN60601-1 3.1rd Edition IEC EN60601-1 3.1rd Edition
	Emission	-	IEC60601-1-2 Ed4:2014 EN60601-1-2 Ed4:2015 FCC Part 18 Class B EN55011 Class B CE
Environment	Overload protection	-	110% to 150% maximum rating, Auto-recovery
	Overvoltage protection	-	130% max. above nominal output, shutdown and latch off
	Short Circuit protection	-	Auto-recovery
	Operating Temperature	°C	0 to +70°C.
	Operating Humidity	%	Non-condensing 0% to 90%.
	Storage Temperature	-	-20°C to +85°C.
	MTBF	H	> 100,000 hours @full load and 25°C ambient temperature
Dimension	Size(LxWxH) / Weight	mm/g	L203.2xW118.5xH66/990g (Top Fan)



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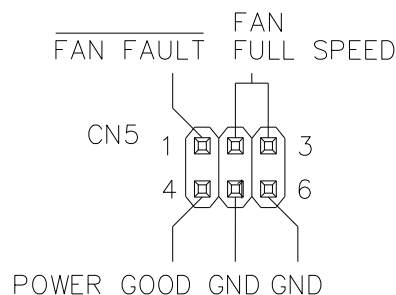
Matching Connectors (part 2)

500W

CN5: Fan control & Power Good Signal Connector

JST RF-H062TD-1130 pitch: 2.54mm or equivalent, mates with female housing JST RF-06 or equivalent

Pin #	Signal
1	FAN FAULT
2, 3	FAN FULL SPEED
4	POWER GOOD
5	GND
6	GND



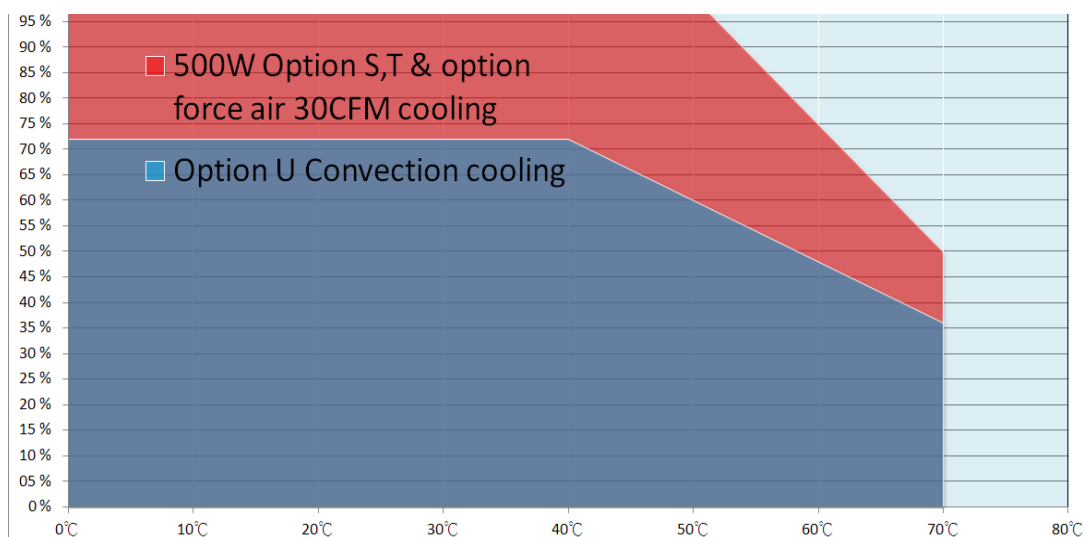
FAN FAULT: Fan status indication, Fan Good: Logic level HIGH(+5V), Fan Fault: Logic level LOW(0V)

FAN FULL SPEED: Short these 2 pins (#2 and #3) with mini-jumper to get highest fan speed

POWER GOOD: Power Good: Logic level HIGH(+5V), Power Fault: Logic LOW(0V)

Derating Curve

500W





Matching Connectors

500W

CN1: Input Connector

3-Pole Terminal block pitch: 8.25mm rate 20A/300V

Pin #	Signal
1	AC Neutral
2	AC Line
3	F.G.

CN2: +5VSB Output Connector

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

Pin #	Signal
1	+5VSB
2	GND

CN3: Remote Sense Connector

JST B6B-XH-A pitch: 2.5mm or equivalent, mates with female housing JST XHP-6 or equivalent

Pin #	Signal
1	Sense +
2	Sense -
3	+5VSB
4	GND
5	INHIBIT (Remote control)
6	Current Share

INHIBIT: Logic level HIGH(+5V): Enable, Logic level LOW: Disable(0V)

CN4: Main Output Connector

6-Pole Terminal block pitch: 8.25mm rate 20A/300V

Pin #	Signal
1	+Vo
2	+Vo
3	+Vo
4	RTN
5	RTN
6	RTN

FAN1: Fan Output Connector

JST S2B-XH-A pitch: 2.5mm or equivalent, mates with female housing JST XHP-2 or equivalent

Pin #	Signal
1	+12VDC FAN+
2	+12VDC FAN-

FAN2: Fan Output Connector

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

Pin #	Signal
1	+12VDC FAN+
2	+12VDC FAN-





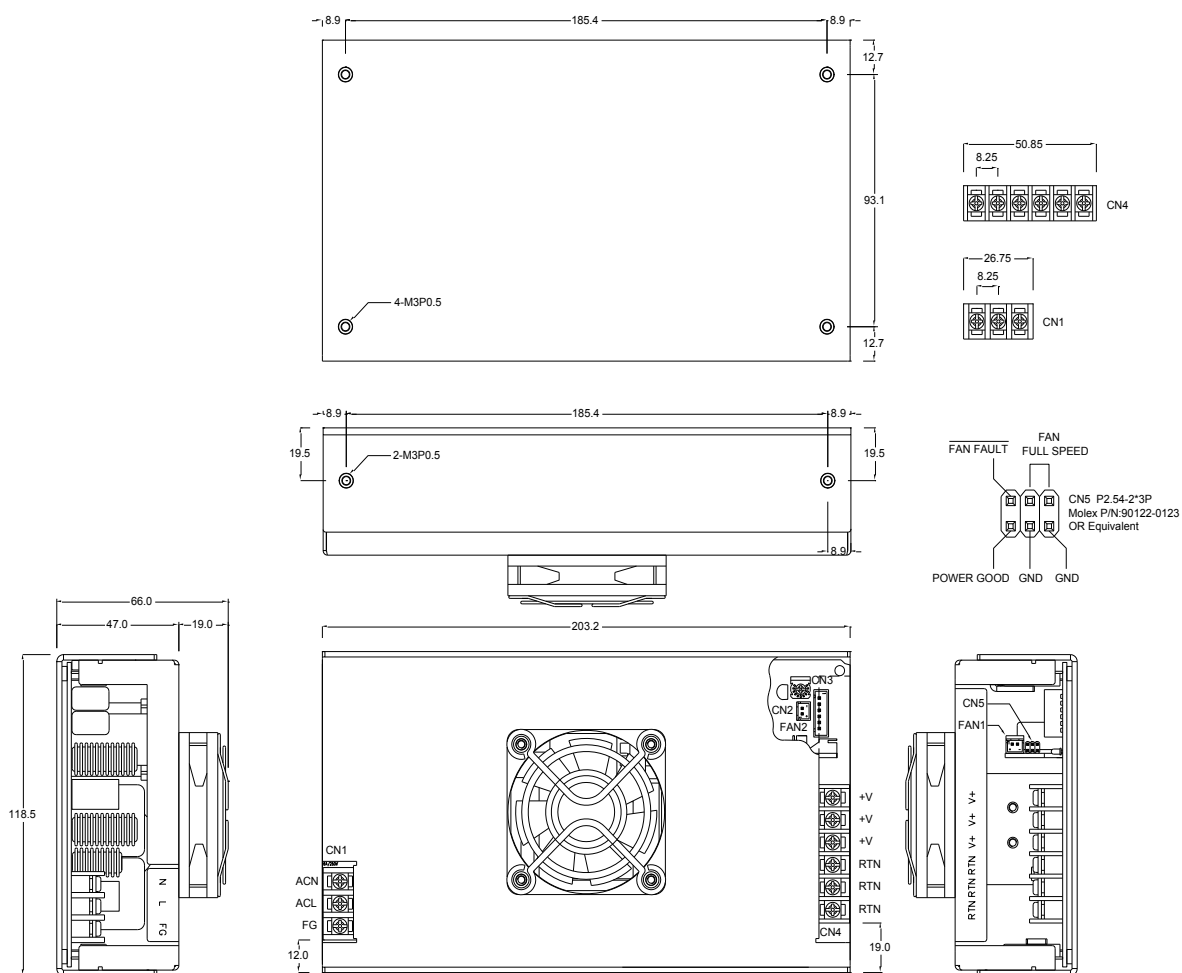
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Mechanical Specification (mm)

500W

T, Fan on top



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Mouser Electronics

Authorized Distributor

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