

ZMD100-SX-F-W

100-150 Watt AC/DC Power Supply



FEATURES

Both ITE & Medical Approvals

•VI Approved

•Efficiency : > 92% typical @full load, 230VA

• leakage current < 100uA @264VA

ITE 60950-1, 62368-1 & Medical 60601-1 approvals.

•High Power density, 100~150W in 3"X2" 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.

No Load Consumption <150mW

3 years Warranty



ALL PENDING

UNIT								
INPUT	Voltage/Freq	V	AC90V - 264V	47 / 63Hz				
	Current (rms).	A	2A @115VAC; 1A @230VAC max					
	Power Factor	-	> .95 @ 115vac; > .90@230vac @ full load					
	Inrush Current	A	<50A peak @115VAC; <100A peak @230VAC cold start @25 C					
	Leakage Current	uA	< 100uA @264VA					
			ZMD100-12SX-F-W	ZMD100-15SX-F-W	ZMD100-18SX-F-W	ZMD100-24SX-F-W		
OUTPUT	Nominal Voltage	VDC	12	15	18	24		
	Efficiency typ		92	92	92	92		
	Current	Convection A	8.34	6.67	5.56	4.17		
		18 cfm Forced Air	12.5	10.00	8.34	6.25		
	Regulation		+/-3%	+/-3%	+/-3%	+/-3%		
	Ripple Noise (v1)	mV	120 max	240 max	240max	240 max		
	Convection cool	W	200W					
	18cfm Forced Air power	W	280W					
	Holdup-Time	mS	> 10ms typical @full load, 115VA					

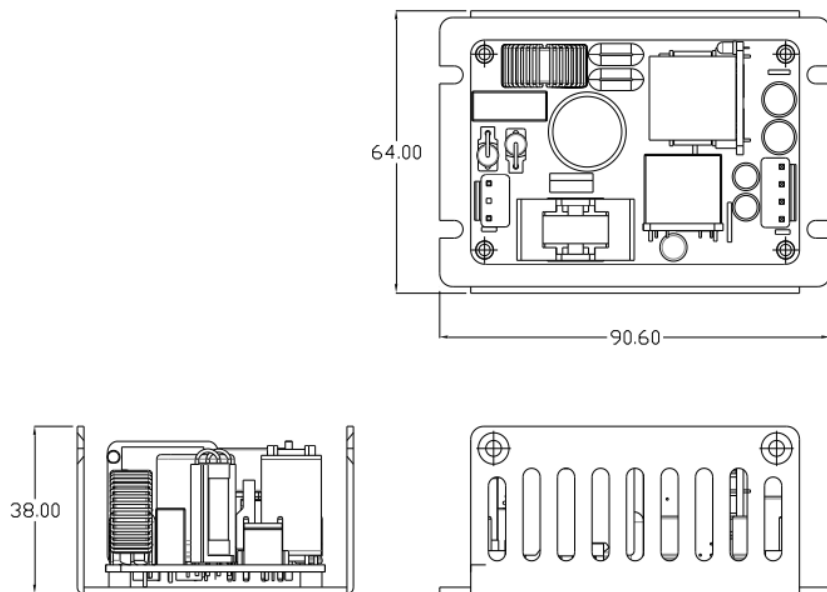
			ZMD100-28SX-F-W	ZMD100-36SX-F-W	ZMD100-48SX-F-W	ZMD100-54SX-F-W		
OUTPUT	Nominal Voltage	VDC	28	36	48	54		
	Efficiency typ		VI	VI	VI	VI		
	Current	Convection	3.58	2.78	2.09	1.86		
		18 cfm Forced Air	5.36	4.17	3.13	2.78		
	Regulation		+/-2%	+/-2%	+/-2%	+/-2%		
	Ripple Noise (v1)	mV	280 max	300 max	300max	300 max		
	Convection cool	W	100W					
	10cfm Forced Air power	W	150W					
	Holdup-Time	mS	> 10ms typical @full load, 115VA					

Protection	Over Voltage	Latching type, AC Recycle						
	Over Power	105% to 160% maximum rating, Auto-recovery						
	MTBF	>250,000 hrs.@ full load and 25C ambient temp. per Telcordia (Bellcore TR-332)						
SAFETY		UL60601-1 3.1rd , Edition, UL62368-1, EN60601-1 3.1Rd Edition, TUV EN62368-1, CB IEC 62368-1						
	EMC STANDARDS	IEC60601-1-2 Ed4:2014, EN55011 Class B, EN55032 Class B, EN55024 FCC Part 15 Class B, FCC Part 18 Class B, CE						
Environment	Operating temp/humid	-20 ~ +70°C, 0 ~ 90% RH(Non condensing)						
	Storage temp/humid	-20 ~ +85°C,						
Size	MM/G U-Channel	90.6X 64.00X 38 (3.57" X 2.52" X 1.5")	200G					
	MM/G Enclosed	90.6X 64.00X 39.2 (3.57" X 2.52" X 1.55")	210G					

- 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.
- Model option: U-Channel - U , Enclosed - C

BLOCK DIAGRAM

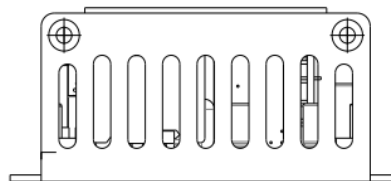
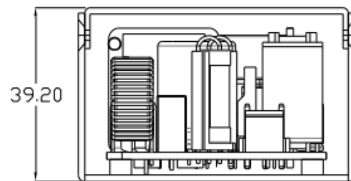
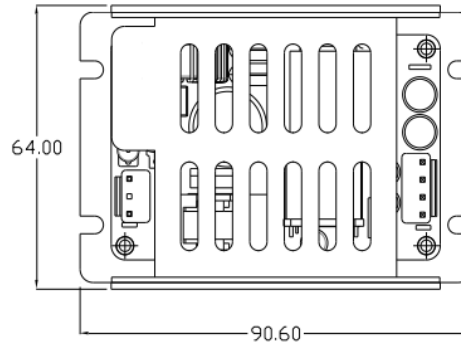
Dimensional Drawing





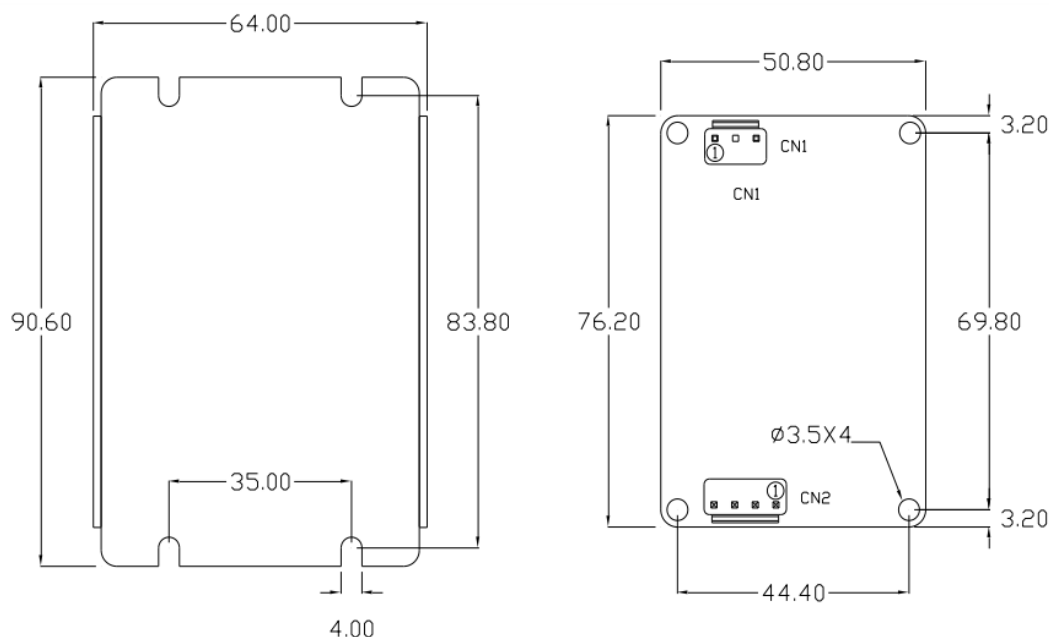
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THE POWER PROFESSIONALS



ETA-USA

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CN1 : Input Connector (pitch : 3.96mm)

JST B3P-VH-B or equivalent

Mates with JST VHR-3N or equivalent

Pin #	Signal
1	AC Line
2	AC Neutral

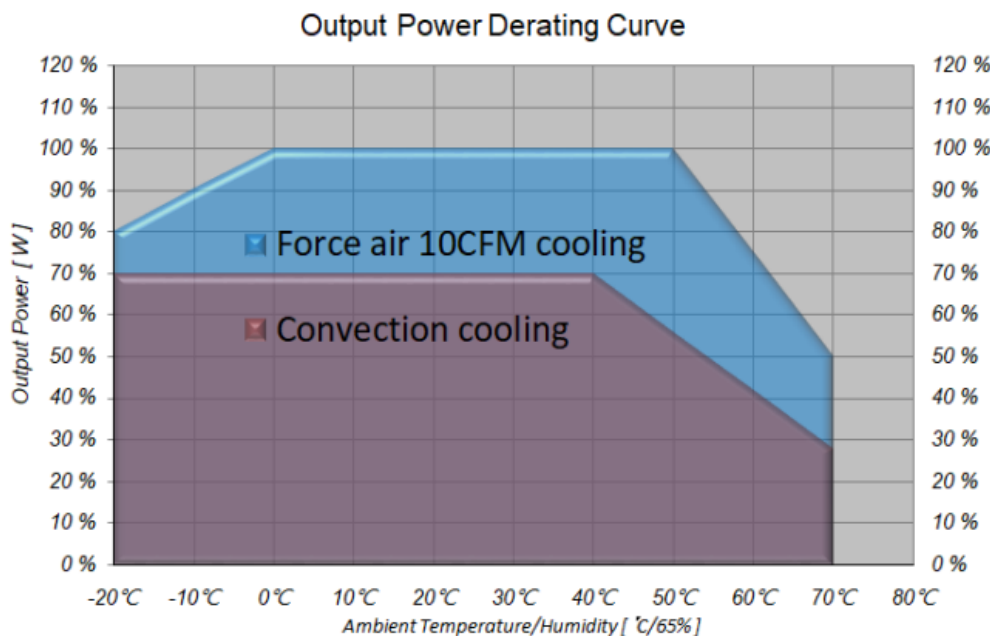
CN2 : Main Output Connector (pitch : 3.96mm / 3.81mm)

JST B4P-VH-B or equivalent

Mates with JST VHR-4N or equivalent

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

DERATING CURVE



Convection cooling Derate linearly 2.5% per °C from 41 to 70°C
10CFM forced air cooling Derate linearly 2.5% per °C from 51 to 70°C
10CFM forced air cooling Derate linearly 1.0% per °C from 0 to -20°C

Mouser Electronics

Authorized Distributor

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