



## ZMD-SX-F-W

## 100W



### 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
- Medical applications Protection: Means of Patient Protection ( MOPP) Isolation Voltage 5,656 VDC
- 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/NEW

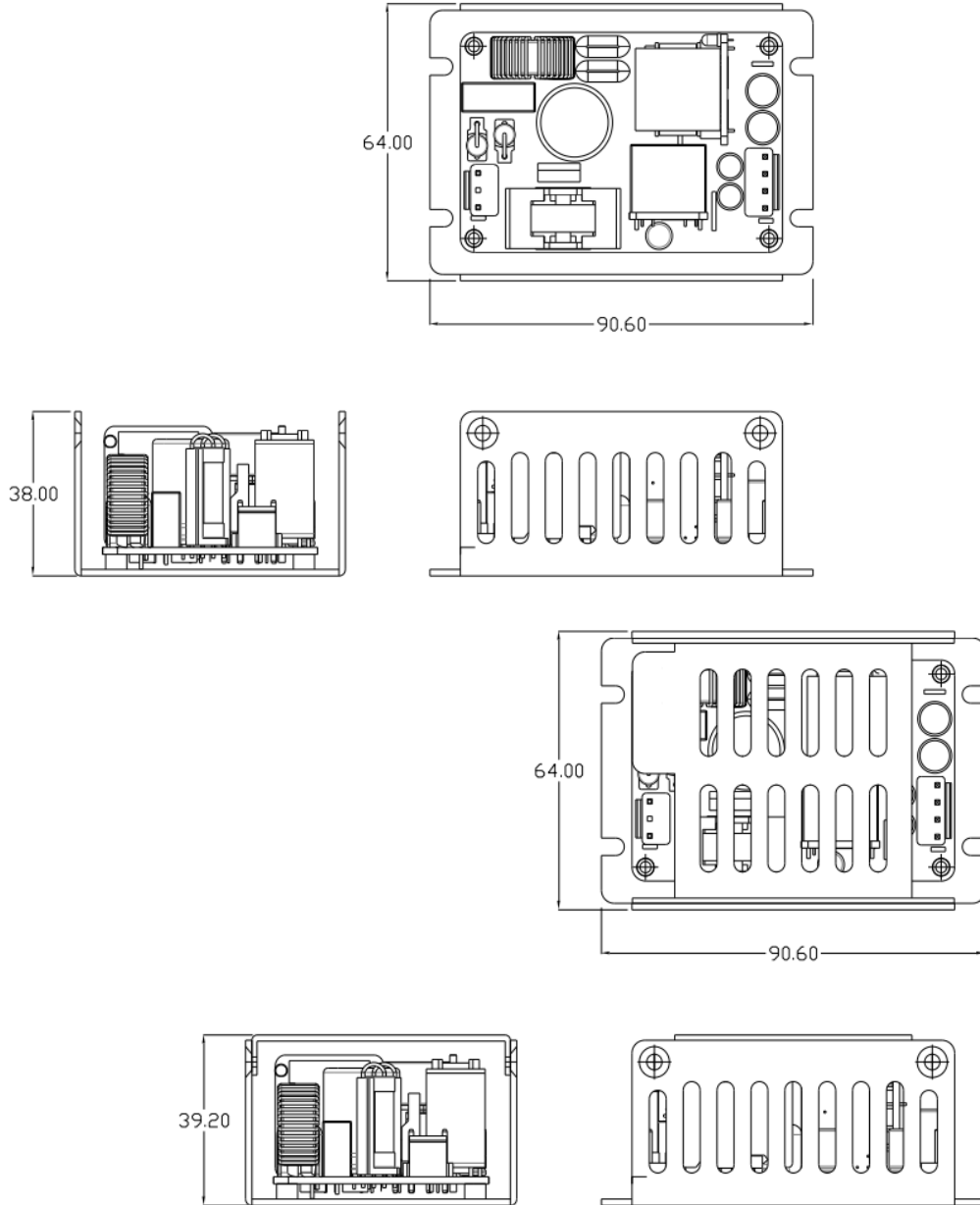


MODEL/CHANNEL		Unit	ZMD100-12SX-F-W	ZMD100-15SX-F-W	ZMD100-18SX-F-W	ZMD100-24SX-F-W	ZMD100-28SX-F-W	ZMD100-36SX-F-W	
OUTPUT	Output Voltage	Vdc	12	15	18	24	28	36	
	Output Current	A	8.34	6.67	5.56	4.17	3.58	2.78	
	Ripple and Noise(max.) *3	mV	120	240	240	240	280	280	
	Forced Air CFM	mV	12.5	10	8.34	6.25	5.36	4.17	
	O/P Regulation	-	+/-3%				+/-2%		
	Efficiency	%	92						
Hold-up time	mS	> 10ms typical @full load, 115VA							
MODEL/CHANNEL		Unit	ZMD100-48SX-F-W			ZMD100-54SX-F-W			
OUTPUT	Output Voltage	Vdc	48			54			
	Output Current	A	2.09			1.86			
	Ripple and Noise(max.) *3	mV	300			300			
	Forced Air CFM	mV	3.13			2.78			
	O/P Regulation	-	+/-2%						
	Efficiency	%	92						
INPUT	Input Voltage	Vac	AC90V~ 264V						
	Input Frequency	Hz	47 / 63Hz						
	Power Factor	-	> .95 @115vac; >.90 @230vac @full load						
	Inrush Current *1	A	<50A peak @115VAC; <100A peak @230VAC cold start @25°C						
	Efficiency (typical) *2	uA	< 100uA @264VA						
Protection	Over Voltage Protection	-	Latching type, AC Recycle						
	Over Power Protection	-	105% to 160% maximum rating, Auto-recovery						
Environmental Agencies	Safety	-	UL60601-13. 1rd , Edition, UL62368-1, EN60601-1 3.1Rd Edition, TUV EN62368-1,						
	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						
	MTBF	-	>250,000 hrs.@ full load and 25°C ambient temp. per Telcordia(Bellcore TR-332)						
Environment	Operating Temp./Humidity	-	-20~ +70°C, 0~ 90%RH (Non condensing)						
	Storage Temperature	-	-20~ +85°C						
Dimension	Size(WxHxD) / Weight	mm/g	90.6x 64x38/200g			90.6x 64x39.2/210g(Enclosed)			



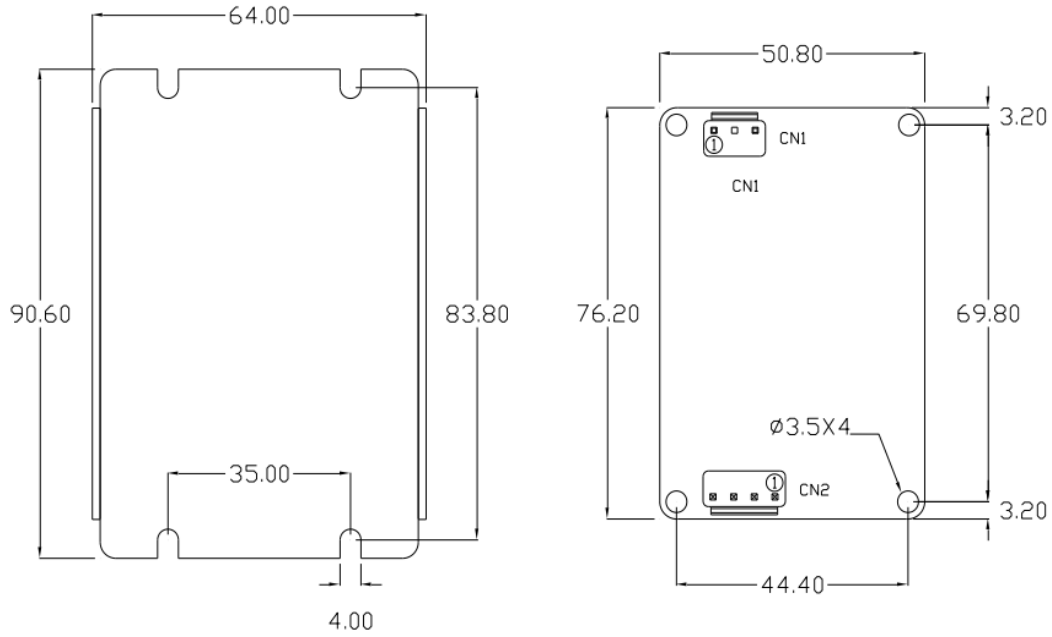


## Dimension Diagram (mm)





## Dimensional Drawing



### 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

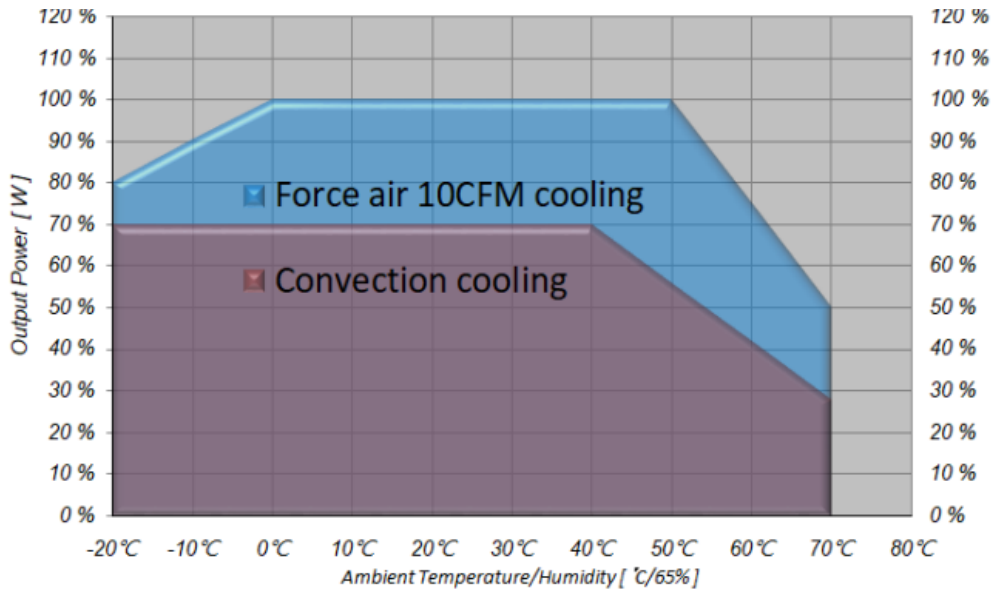
Mates with JST VHR-4N or equivalent

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**

