



Size: 7.87in x 3.54in x 1.77in (200mm x 90mm x 45mm)

FEATURES

- Wide Input Voltage Range of 90~264VAC
- DOE Level VI & EU ERP Tier 2 Compliant
- RoHS Compliant
- Suitable for BF Application with Appropriate System Considerations
- Short Circuit, Over Load, and Over Voltage Protection
- 2x MOPP Safety Approval
- High Efficiency
- 3-Prong IEC320-C14 Inlet, Class I
- I/O Switch Option
- ITE & Medical Approval (Class I)

DESCRIPTION

The DTZM250 series of AC/DC medical/ITE desktop power supply offers up to 250 watts of output power in a 7.87" x 3.54" x 1.77" package with IEC320-C14 inlet. This series consists of single output models with a wide input voltage range of 90~264VAC and high efficiency. Each model in this series is RoHS, DOE Level VI, EU ERP Tier 2 Compliant, has 2x MOPP safety approvals, and has short circuit, over load, and over voltage protection. This series has both ITE & medical approvals. Please contact factory for order details.

MODEL SELECTION TABLE

Model Number ⁽¹⁾	Input Voltage Range	Output Voltage	Output Current	Ripple & Noise ⁽²⁾	Output Power	Efficiency Level
DTZM250-S12	90~264VAC	12V	20.83A	240mVp-p	250W	VI & EU Erp Tier 2
DTZM250-S19		19V	13.157A	300mVp-p		
DTZM250-S24		24V	10.416A	300mVp-p		
DTZM250-S28		28V	8.928A	300mVp-p		
DTZM250-S36		36V	6.94A	300mVp-p		
DTZM250-S48		48V	5.208A	300mVp-p		
DTZM250-S54		54V	4.629A	300mVp-p		

SPECIFICATIONS

All specifications are based on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted. We reserve the right to change specifications based on technological advances.

SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
INPUT SPECIFICATIONS					
Input Voltage Range		90		264	VAC
Frequency		47		63	Hz
Input Current (rms)	@115VAC @230VAC			2.5 1.3	A
Inrush Current	@115VAC, Cold Start, @25°C @230VAC, Cold Start, @25°C			80 80	A
Touch Current	@264VAC			100	uA
No Load Input Power			≤0.15		W
Power Factor	@115VAC, Full Load @230VAC, Full Load	0.95 0.90			
OUTPUT SPECIFICATIONS					
Output Voltage				See Table	
Output Regulation			±5		%
Output Power				See Table	
Output Current				See Table	
Ripple & Noise ⁽²⁾				See Table	
Hold-Up Time	@Full Load, 115VAC	10			mS
PROTECTION					
Short Circuit Protection				Automatic Recovery	
Over Load Protection	Maximum Power, Automatic Recovery	105		160	%
Over Voltage Protection				Automatic Recovery	
GENERAL SPECIFICATIONS					
Average Efficiency ⁽³⁾	@115/230VAC	89			%

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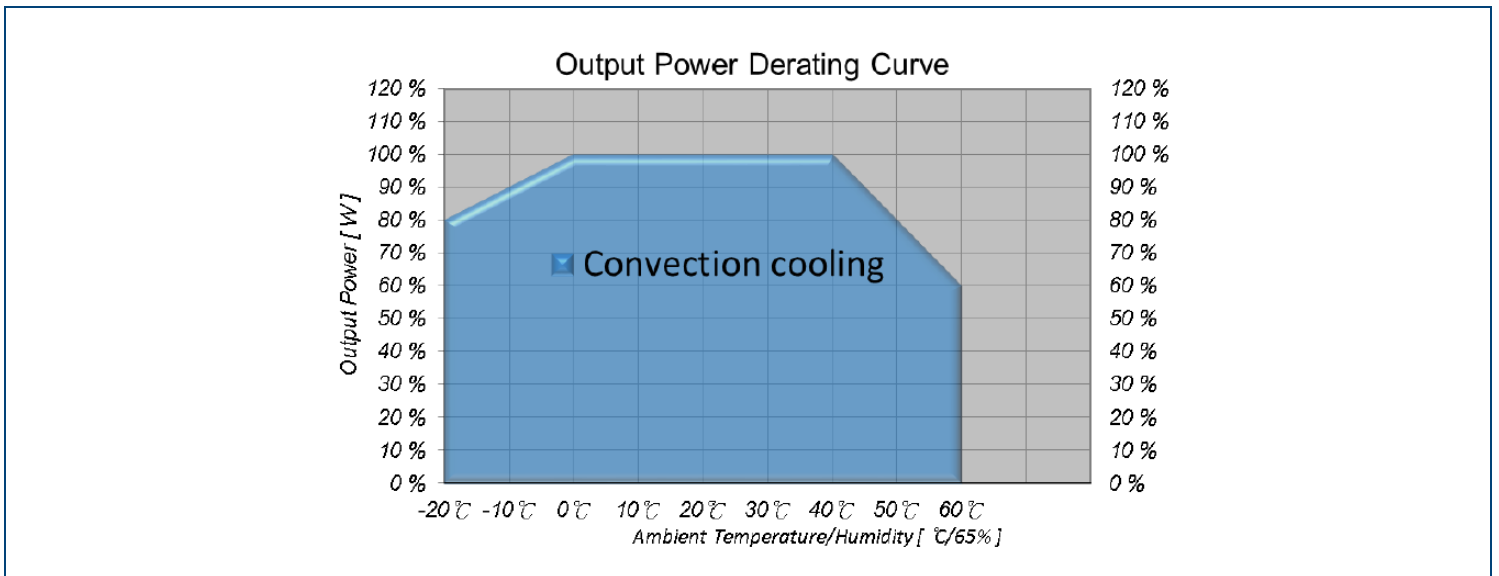
SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
ENVIRONMENTAL SPECIFICATIONS					
Operating Temperature		-20		+60	°C
Storage Temperature		-20		+85	°C
Humidity	Non-Condensing	0		95	%
Altitude	During Operation			5000	m
Cooling			Convection		
MTBF	@Full Load and 25°C Ambient Temp based on Bellcore TR-332	200,000			Hours
PHYSICAL SPECIFICATIONS					
Weight		2.87lbs (1.3kgs)			
Dimensions (L x W x H)		7.87in x 3.54in x 1.77in (200mm x 90mm x 45mm)			
SAFETY CHARACTERISTICS					
Safety Approvals		UL/cUL 60601-1 3.1 Edition ⁽⁴⁾ TUV EN60601-1 3.1 Edition CB IEC 60601-1 3.1 Edition UL/cUL UL60950-1 TUV EN60950-1 CB IEC 609509-1			
EMC Standards		EN60601-1-2 IEC60601-1-2 Ed4: 2014 EN 55011 EN55032 EN55024 FCC Part 15 FCC Part 18 CE			
					Class B Class B Class B Class B Class B

NOTES

- I/O switch is optional for this series. To indicate a product with no switch, no suffix should be added. To indicate a switch, add an "S" to the model number. Ex: DTZM250-S12S
There are also grounding options for this series: A=isolated & PE is disconnected O/P cable & B=isolated & PE is connected O/P cable.
- Ripple & Noise are measured at oscilloscope 20MHz bandwidth by a 47uF electrolytic capacitor and a 0.1uF ceramic capacitor in parallel at output connector.
- 25%, 50%, 75%, and 100% of Full Load
- This product is Listed to applicable standards and requirements by UL.

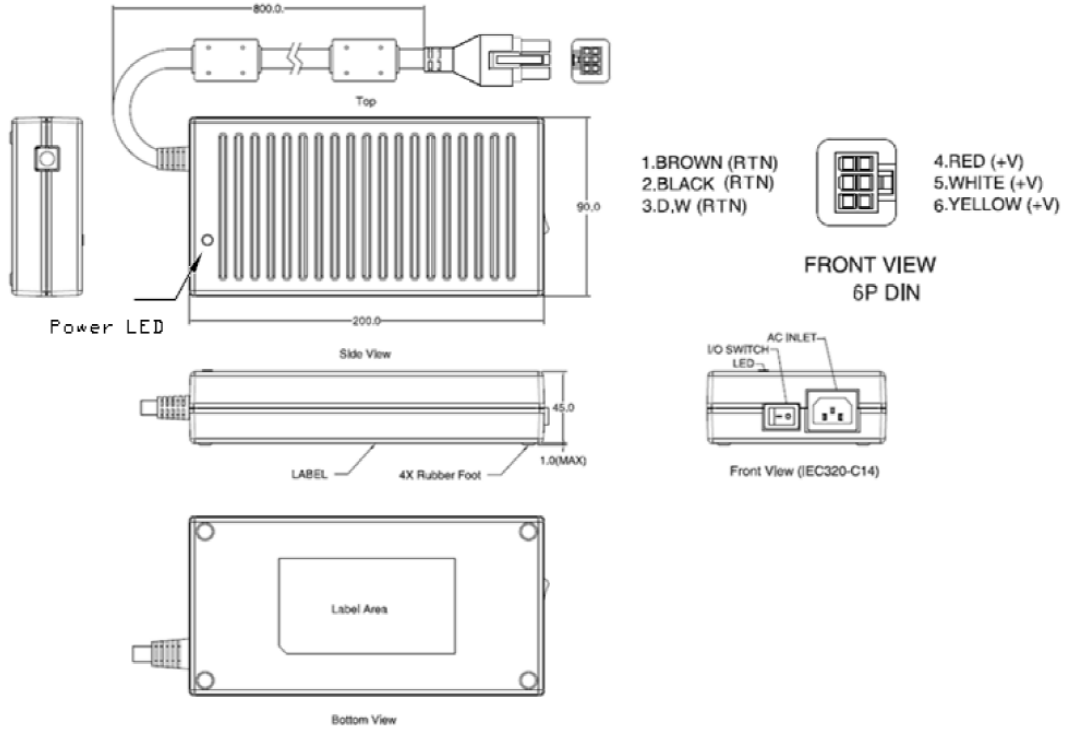
*Due to advances in technology, specifications subject to change without notice.

DERATING CURVES

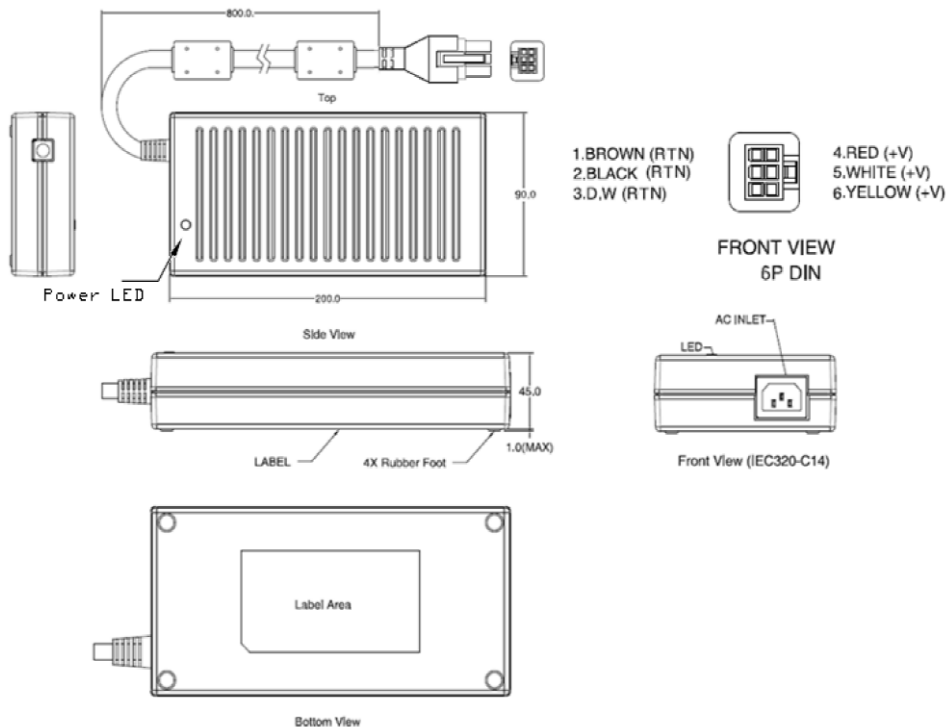


MECHANICAL DRAWINGS

With I/O Switch ("S" Suffix)

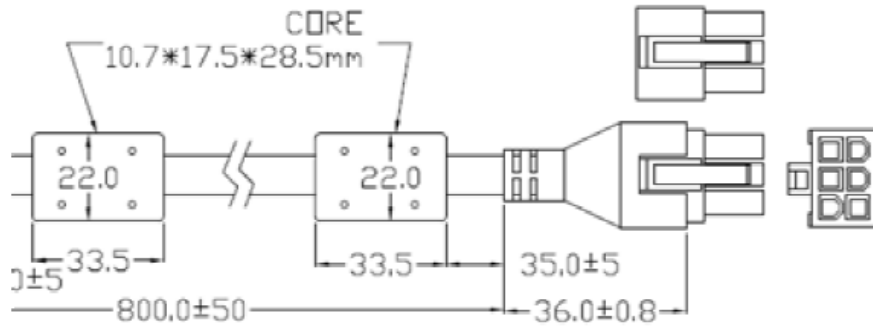


Without I/O Switch



MATCHING CONNECTORS

DC Output Connector
Standard Male Plug (Power Supply Side): 6 PIN Mini Fit Pitch: 4.2mm
Mating Connector: Molex P/N: 39-28-1063 or equivalent
DC Output Cable: 5C+1, UL2464, 16AWG, VW-1, 80°C, 300V



MODEL NUMBER SETUP

DTZM	250	-	S	12	S	A
Series Name	Output Power		Output Quantity	Output Voltage	Switch	Grounding
				12: 12VDC 19: 19VDC 24: 24VDC 28: 28VDC 36: 36VDC 48: 48VDC 54: 54VDC	Blank: No Switch S: Switch	A: Isolated & PE is Disconnected O/P Cable B: Isolated & PE is Connected O/P Cable

COMPANY INFORMATION

Wall Industries, Inc. has created custom and modified units for over 50 years. Our in-house research and development engineers will provide a solution that exceeds your performance requirements on-time and on budget. Our ISO9001: 2015 certification is just one example of our commitment to producing a high quality, well-documented product for our customers.

Our past projects demonstrate our commitment to you, our customer. Wall Industries, Inc. has a reputation for working closely with its customers to ensure each solution meets or exceeds form, fit and function requirements. We will continue to provide ongoing support for your project above and beyond the design and production phases. Give us a call today to discuss your future projects.

Contact **Wall Industries** for further information:

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