



Size: 7.42in x 4.11in x 2.36in (188.5mm x 104.5mm x 60mm)

**FEATURES**

- 250 Watts
- Wide Input Range of 90~264VAC
- Active PFC
- IEC-320-C14 AC Inlet
- RoHS Compliant
- Built-In 40 x 40 x 10mm DC Fan
- Short Circuit, Over Load, and Over Voltage Protection
- DoE Level VI and EU Tier 1 Efficiency Compliant
- UL 60950-1, CSA C22.2-No. 60950-1, TUV EN60950-1, CB IEC 60950-1 Safety Approvals

**DESCRIPTION**

The DTA250 series offers 250 watts of output power in a single output desktop power supply. All models have a 90~264VAC input voltage range, an IEC-320-C14 AC inlet, a 40mm cooling fan with fan speed control, and active PFC. Output voltages are available from 12 to 48VDC. This series has UL 60950-1, CSA C22.2-No. 60950-1, TUV EN60950-1, CB IEC 60950-1 safety approvals. All units are short circuit, over voltage, and over load protected. These supplies meet CEC/Energy Star Level VI requirements and all models are RoHS compliant.

**MODEL SELECTION TABLE**

Model Number	Input Voltage Range	Output Voltage	Output Current	Ripple & Noise	Output Power	Efficiency
DTA250A4-1Y120E	90~264	12V	20.83A	240mV	250W	>88%
DTA250A4-1Y160E		16V	15.63A	300mV	250W	
DTA250A4-1Y190E		19V	13.16A	300mV	250W	
DTA250A4-1Y200E		20V	12.5A	300mV	250W	
DTA250A4-1Y240E		24V	10.42A	300mV	250W	
DTA250A4-1Y360E		36V	6.94A	300mV	250W	
DTA250A4-1Y480E		48V	5.21A	300mV	250W	

**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
<b>INPUT SPECIFICATIONS</b>					
Input Voltage Range		90		264	VAC
Input Frequency		47		63	Hz
Input Current (rms)	@90VAC			3.5	A
	@264VAC			1.75	
Inrush Current	@115VAC, Cold Start 25°C			65	A
	@230VAC, Cold Start 25°C			130	
No Load Power Consumption				210	mW
Power Factor	@115VAC, Full Load	0.95			
	@230VAC, Full Load	0.90			
Touch Current	@264VAC			190	uA
<b>OUTPUT SPECIFICATIONS</b>					
Output Voltage			See Table		
Output Regulation <sup>(1)</sup>			±5		%
Output Power			See Table		
Output Current			See Table		
Ripple & Noise <sup>(2)</sup>			See Table		
Hold-Up Time	@115VAC, Full Load		>16		mS
<b>PROTECTION</b>					
Short Circuit Protection					Automatic Recovery
Over Load Protection					Automatic Recovery
Over Voltage Protection					Shutdown and Latch Off, AC Recycle
<b>ENVIRONMENTAL SPECIFICATIONS</b>					
Operating Temperature	Derate linearly 2.5% per °C from 41 to 60°C	-20		60	°C
	Derate linearly 1.0% per °C from -1 to -20°C				
Storage Temperature		-20		85	°C
Humidity		10		90	%
Altitude	During Operation			3000	m
MTBF	@Full Load, 25°C Ambient	140,000			Hours

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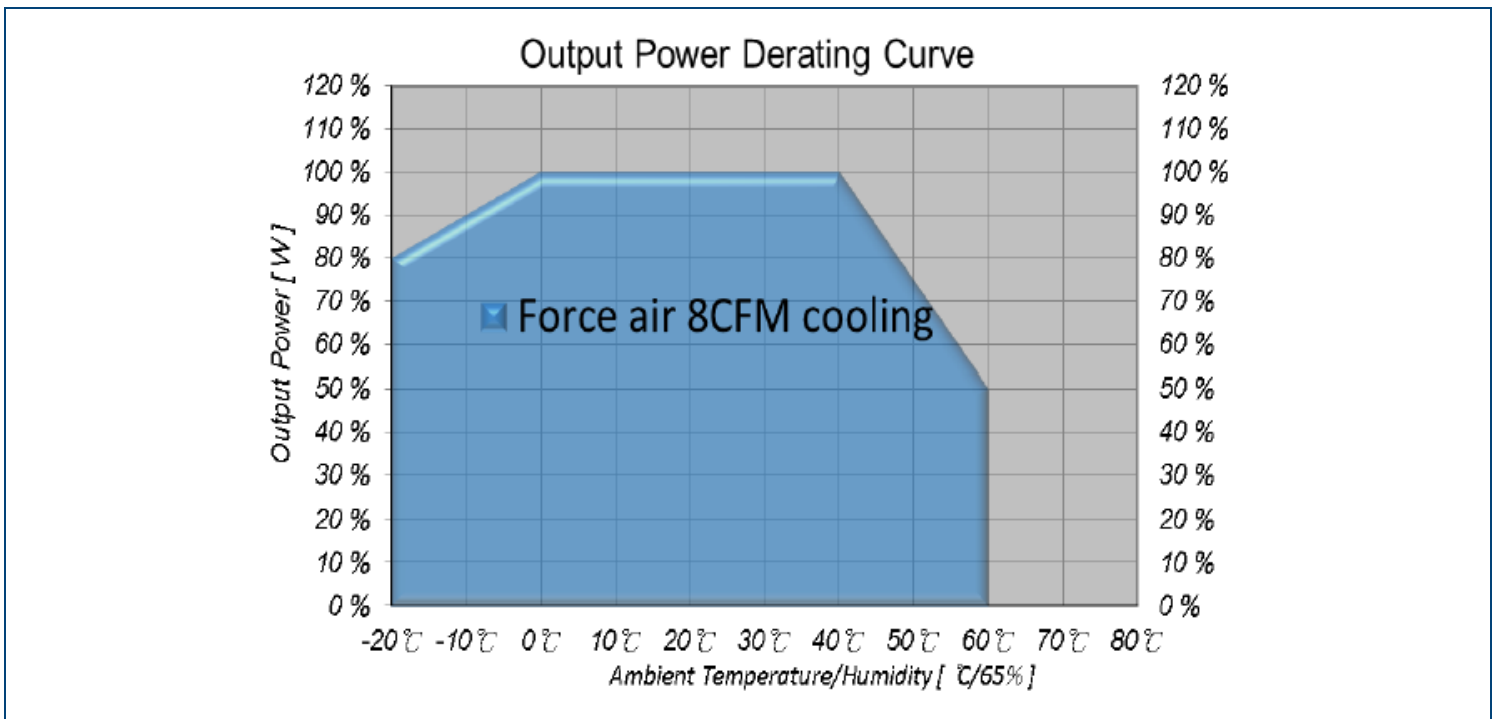
SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
<b>GENERAL SPECIFICATIONS</b>					
Efficiency	@Average Load, 115/230VAC	88			%
<b>PHYSICAL SPECIFICATIONS</b>					
Weight		2.31lbs (1.05kg)			
Dimensions (L x W x H)		7.42in x 4.11in x 2.36in (188.5mm x 104.5mm x 60mm)			
AC Inlet		IEC-320-C14			
Built-In Fan		40x40x10mm DC Fan with Fan Speed Control			
<b>SAFETY CHARACTERISTICS</b>					
Safety Approvals		UL 60950-1 CSA C22.2-No.60950-1 TUV EN60950-1 CB IEC 60950-1			
EMC		FCC CISPR22 EN 55022 CE			
Efficiency Requirements		DoE Level VI EU Tier 1			

**NOTES**

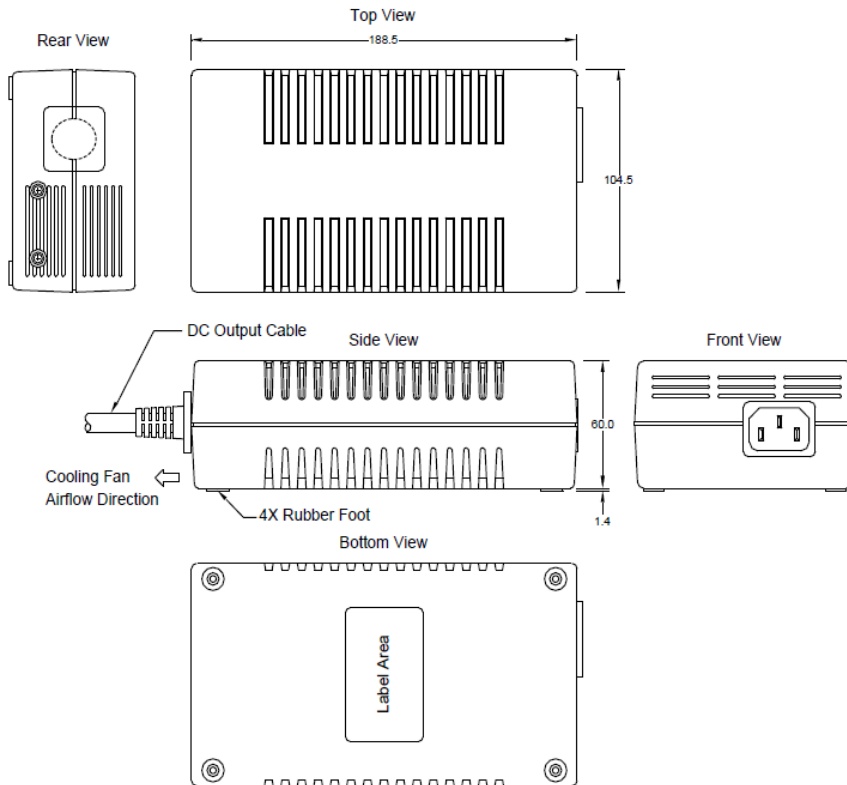
- 20 to -10°C output characteristics, output regulation is ±6% for 36V.
- Ripple and Noise are measured at oscilloscope 20MHz bandwidth by a 10uF electrolytic capacitor and a 0.1uF ceramic capacitor in parallel at output connector.

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

**DERATING CURVES**



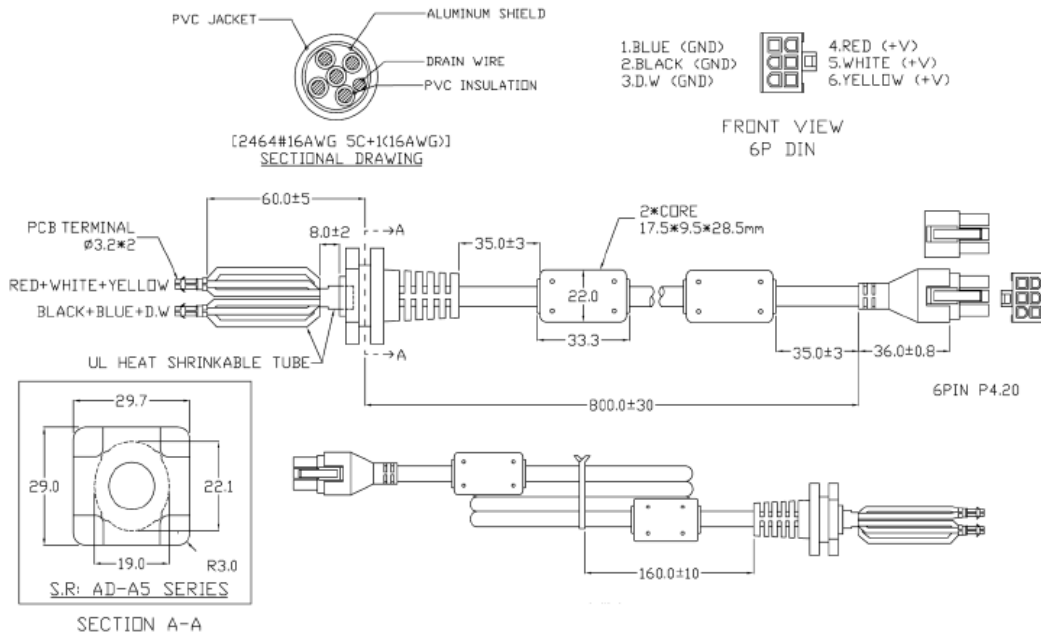
MECHANICAL DRAWINGS



Notes:  
AC Inlet: IEC320-C14  
Plastic Case Color: Black  
Tolerance:  $\pm 0.5\text{mm}$   
Unit: mm

MATCHING CONNECTORS

DC Output Cable: 5C+1, UL2464, 16AWG, VW-1, 80°C, 300V



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## 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 ISO9001-2008 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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