



Size: 6.69in x 3.35in x 1.73in (170mm x 85mm x 44mm)

**FEATURES**

- Class I
- Single Output
- RoHS Compliant
- Active PFC Function
- AC Inlet: IEC-320-C14 Inlet
- 100% Hi-Pot and Burn-In Tested
- 90~264VAC Input Voltage Range
- Safety Approvals, EMC Compliance
- CEC/ Energy Star Level VI Compliant
- Over Voltage, Over Load, and Short Circuit Protected

**DESCRIPTION**

The DTA100A-H series consists of 100W, grounded, single phase, switching adaptors with active PFC function. These supplies have a single output, an input voltage range of 90~264VAC, and an IEC-320-C14 AC inlet connector. These supplies are also protected against over load, over voltage, and short circuit conditions. In addition, the DTA100A-H series complies with worldwide safety requirements and electromagnetic compatibility requirements and meets EMC, CEC/ Energy Star Level VI, and RoHS requirements for desktop switching adaptors. This series has been 100% burn-in and hi-pot tested.

**MODEL SELECTION TABLE**

Model Number	Input Voltage Range	Output Voltage <sup>(1)</sup>	Output Current	Ripple & Noise <sup>(2)</sup>	Output Power	Efficiency Level
DTA-100A-1Y120H	90~264VAC	12VDC	8.34A	240mVp-p	100W	VI
DTA-100A-1Y160H		16VDC	6.25A	320mVp-p	100W	VI
DTA-100A-1Y190H		19VDC	5.27A	380mVp-p	100W	VI
DTA-100A-1Y240H		24VDC	4.17A	480mVp-p	100W	VI
DTA-100A-1Y360H		36VDC	2.78A	480mVp-p	100W	VI
DTA-100A-1Y480H		48VDC	2.09A	480mVp-p	100W	VI

**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		2.5		A
	@264VAC max.		1.25		
Inrush Current	@115VAC			75	A
	@230VAC cold start @25°C			150	
<b>OUTPUT SPECIFICATIONS</b>					
Output Voltage		See Table			
Output Voltage Regulation	DTA-100A-1Y120H, DTA100A-1Y160H, DTA100A-1Y190H DTA-100A-1Y240H, DTA100A-1Y360H, DTA100A-1Y480H		±5		%
			±3		
Output Power		See Table			
Output Current		See Table			
Ripple & Noise (20MHz bandwidth) <sup>(2)</sup>		See Table			
Hold-Up Time	@Full Load, 115VAC		>16		ms
<b>PROTECTION</b>					
Short Circuit Protection		Auto-Recovery			
Over Load Protection		Auto-Recovery			
Over Voltage Protection		Shutdown and Latch Off, AC Recycle			
<b>ENVIRONMENTAL SPECIFICATIONS</b>					
Operating Temperature		0		40	°C
Storage Temperature		-10		85	°C
Humidity	Non-condensing	20		90	%
MTBF	@FL and 25°C ambient temperature		>80,000		hrs
<b>GENERAL SPECIFICATIONS</b>					
Efficiency	@Average Load, 115/230VAC			89	%
Dielectric Withstand Voltage	For 4 Seconds	Primary to Secondary	4242		VDC
		Primary to Frame Ground	2121		
Isolation Resistance	500VDC	Primary to Secondary	20		MΩ
		Primary to Frame Ground	20		
Power Factor	@115VAC	0.95			
	@230VAC @Full Load	0.90			
No Load Power Consumption				150	mW

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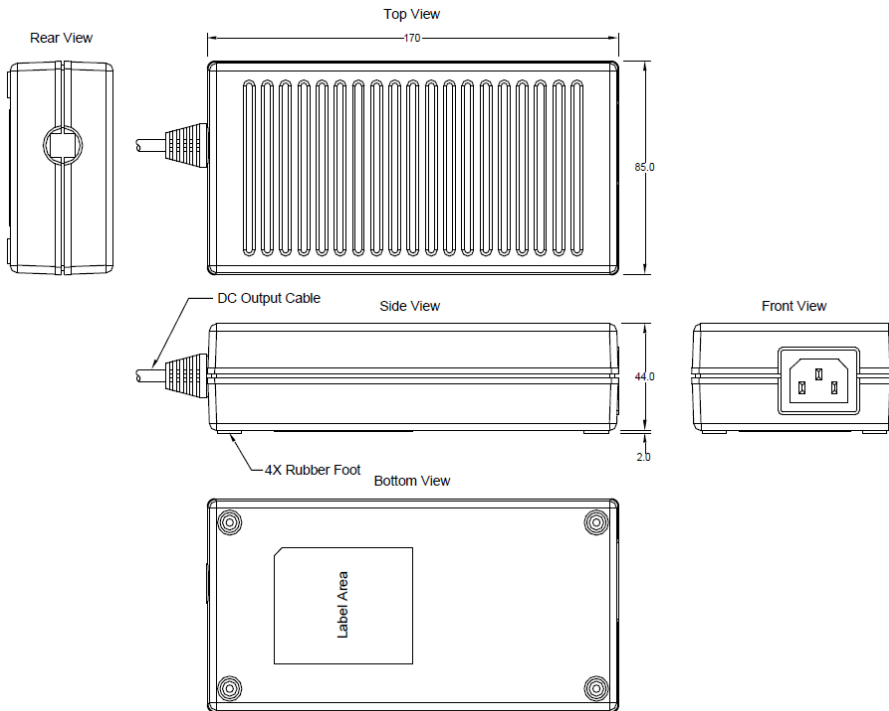
SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
<b>PHYSICAL SPECIFICATIONS</b>					
Weight				1.72 lbs (0.78kg)	
Dimensions (L x W x H)				6.69 x 3.35 x 1.73 in (170 x 85 x 44mm)	
AC Inlet				IEC-320-C14	
Case Material				Plastic	
<b>SAFETY &amp; EMC CHARACTERISTICS</b>					
Safety Standards		UL 60950-1 CSA C22-2-No. 60950-1 TUV EN60950-1 CB IEC 60950-11			
EMI Standards		FCC CISPR22 EN55022 CE			Class B Class B Class B

**NOTES**

- (1) Other output voltages are available: 100W for 12~26VDC, 33~39VDC, and 44~52VDC. Please call factory for ordering details.
- (2) 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.
- (3) Due to advances in technology, specifications subject to change without notice.

**MECHANICAL DRAWINGS**

**Drawing**



- Note:**
1. AC Inlet: IEC320-C14
  2. Plastic Case Color: Black
  3. Tolerance: ±0.5mm
  4. Unit: mm

**STANDARD OUTPUT CABLE**

1. AWM 1571 #14 AWG/1C + SHIELDING, UL 80°C 30V VW-1, 1050 mm. (12-24V)
2. AWM 1185 #16 AWG/1C + SHIELDING, UL 80°C 300V VW-1, 1050 mm. (36-48V)
3. Depends on customers requirements.

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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.

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