



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

FEATURES

- Class I
- Single Output
- RoHS Compliant
- Active PFC Function
- 3 Prong AC Inlet: IEC-320-C14 Inlet
- 100% Hi-Pot and Burn-In Tested
- 90~264VAC Input Voltage Range
- DOE Level VI and EU Tier 2 Efficiency Requirements
- Over Voltage, Over Load, and Short Circuit Protected
- UL60950-1, CSA C22.2-No.60950-1, TUV EN60950-1, and CB IEC 60950-1 Safety Approvals

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 has DOE Level VI and EU Tier 2 compliance, RoHS compliance, and UL60950-1, CSA C22.2-No.60950-1, TUV EN60950-1, and CB IEC 60950-1 safety approvals. This series has been 100% burn-in and hi-pot tested.

MODEL SELECTION TABLE

Model Number	Input Voltage Range	Output Voltage ⁽¹⁾	Output Current	Ripple & Noise ⁽²⁾	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
INPUT SPECIFICATIONS					
Input Voltage Range		90		264	VAC
Input Frequency		47		63	Hz
Input Current (rms)	@90VAC			2.5	A
	@264VAC			1.25	
Inrush Current	@115VAC cold start @25°C			75	A
	@230VAC cold start @25°C			150	
Power Factor	@115VAC, Full Load	0.95			
	@230VAC, Full Load	0.90			
OUTPUT SPECIFICATIONS					
Output Voltage				See Table	
Output Voltage Regulation	DTA-100A-1Y120H, DTA100A-1Y160H, DTA100A-1Y190H		±5		%
	DTA-100A-1Y240H, DTA100A-1Y360H, DTA100A-1Y480H		±3		
Output Power				See Table	
Output Current				See Table	
Ripple & Noise (20MHz bandwidth) ⁽²⁾				See Table	
Hold-Up Time	@115VAC, Full Load		>16		ms
PROTECTION					
Short Circuit Protection				Auto-Recovery	
Over Load Protection				Auto-Recovery	
Over Voltage Protection				Shutdown and Latch Off, AC Recycle	
ENVIRONMENTAL SPECIFICATIONS					
Operating Temperature	Derate linearly 2.5% per °C from 41 to 60°C	0		60	°C
Storage Temperature		-10		85	°C
Humidity	Non-condensing	10		90	%
MTBF	@Full Load and 25°C ambient temperature	140,000			hrs
GENERAL SPECIFICATIONS					
Efficiency	@Average Load, 115/230VAC	89			%
No Load Power Consumption				150	mW

SPECIFICATIONS

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SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
PHYSICAL SPECIFICATIONS					
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		Black Plastic			
SAFETY & EMC CHARACTERISTICS					
Safety Standards	UL 60950-1 ⁽³⁾ 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

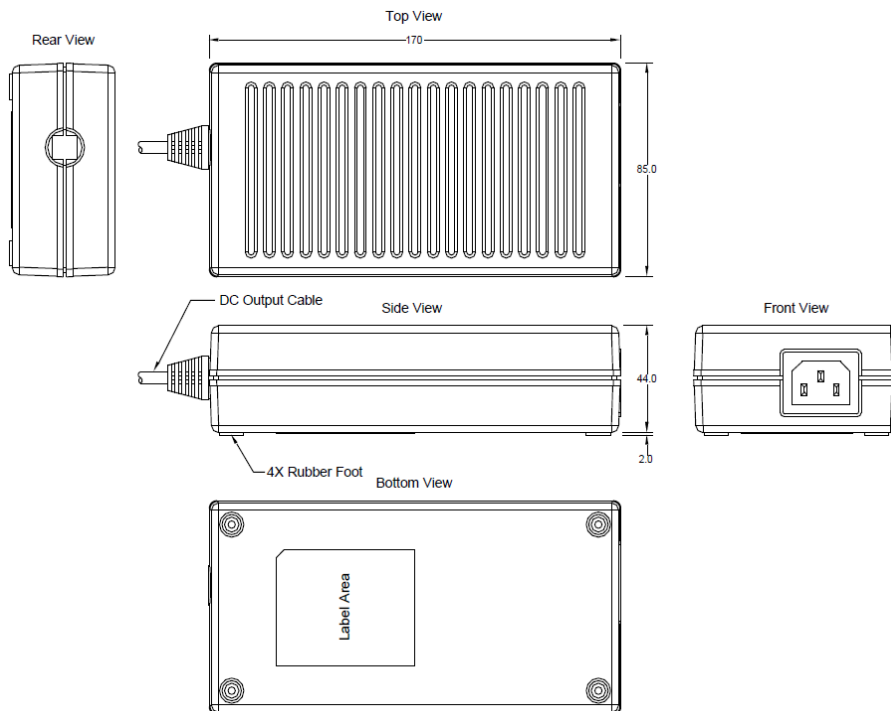
NOTES

- (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) This product is Listed to applicable standards and requirements by UL

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 customer's requirements.

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.

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