Wall Industries, Inc.

Rev A

DTA100A-H Series
With Active PFC
100 Watt, Single Output
AC/DC Desktop Switching Adapter

FEATURES

- Single Output
- High Reliability
- 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
- RoHS, CEC IV, and Energy Star Level V Compliant
- Over Voltage, Over Load, and Short Circuit Protected

DESCRIPTION

The DTA100A-H series consists of 100W, grounded, single phase, switching adapters 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 IV, Energy Star Level V, and RoHS requirements for desktop switching adapters. This series has been 100% burn-in and hi-pot tested.

SPECIFICATIONS: *DTA150A-H Series*

All specifications apply @ ±25°C ambient unless otherwise noted

INPUT SPECIFICATIONS

Input Voltage Range ..... 90 ~ 264 VAC (full range)

Input Frequency ..... 47 ~ 63Hz

Input Current (rms)..... 2.5A @ 90VAC; 1.25A @ 264VAC max.

OUTPUT SPECIFICATIONS

Output Current ..... see table

Output Voltage ..... see table

Voltage Regulation ..... +5% / -2%

Maximum Power 100W

Ripple/Noise (20 MHz BW) ..... see table

Hold Up Time ..... >20ms typical at full load and 115VAC

PROTECTION

Short Circuit Protection ..... Auto-recovery

Over Voltage Protection ..... Latch, AC Recycle

Over Load Protection ..... Auto-recovery

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature ..... 0°C to +40°C

Storage Temperature ..... -10°C to+85°C

Humidity ..... 20% ~ 90% non-condensing

MTBF ..... >80,000 hrs at FL and 25°C ambient temperature

GENERAL SPECIFICATIONS

Efficiency ..... >85% at FL and 115VAC
>85% at HL and 115/230VAC for CEC models

Dielectric Withstand Voltage
Primary to secondary ..... 4242VDC for 4 sec.
Primary to Frame Ground ..... 2121VDC for 4 sec.

Isolation Resistance
Primary to secondary ..... 20MΩ min / 500VDC
Primary to Frame Ground ..... 20MΩ min / 500VDC

Power Factor ..... >0.9 at full load and 115VAC

No Load Power Consumption ..... < 500mW

PHYSICAL SPECIFICATIONS

Dimensions ..... 6.69(L) x 3.35(W) x 1.73(H) inches
170(L) x 85(W) x 44(H) mm

AC Inlet IEC-320-C14

SAFETY & EMI

Safety Standards UL60950-1
..... CSA C22.2-No.60950-1
..... TUV EN60950-1
..... CB IEC 60950-1

EMI Standards ..... FCC Class B
..... CISPR22 Class B
..... EN 55022 Class B
..... CE

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

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MODEL SELECTION GUIDE

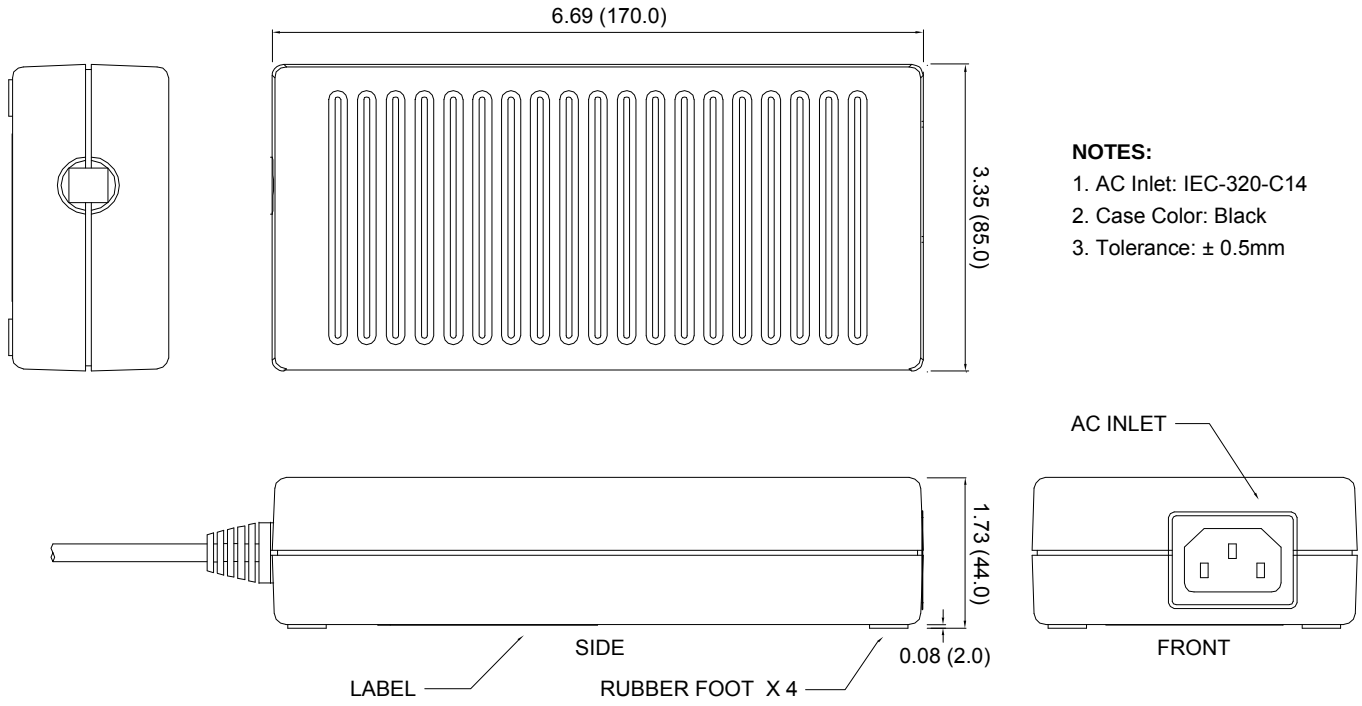
Model	Input Voltage	Output Voltage	Output Current	Ripple & Noise	Output Power
DTA100A-1Y120H	90~264VAC	12 VDC	8.34A	240mVp-p	100W
DTA100A-1Y160H	90~264VAC	16 VDC	6.25A	320mVp-p	100W
DTA100A-1Y190H	90~264VAC	19 VDC	5.27A	380mVp-p	100W
DTA100A-1Y240H	90~264VAC	24 VDC	4.17A	480mVp-p	100W
DTA100A-1Y360H	90~264VAC	36 VDC	2.78A	480mVp-p	100W
DTA100A-1Y480H	90~264VAC	48 VDC	2.09A	480mVp-p	100W

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 is measured peak–to–peak at 20MHz bandwidth with a tantalum 10µF capacitor in parallel with a 0.1µF ceramic capacitor.

MECHANICAL DRAWING

Unit: inches (mm)



STANDARD OUTPUT CABLE

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