

Wall Industries, Inc.

DT24 SERIES

90 ~ 264VAC Input Voltage Range
Single Outputs, Up to 24 Watts
Class II, IEC-320-C8 AC Inlet
AC/DC Desktop Power Supplies



IEC-320-C8 AC Inlet

FEATURES

- Up to 24 Watts
 - Single Outputs
 - Class II
 - RoHS Compliant
 - Output Voltages Available from 5VDC to 48VDC
 - 100% Burn-In and Hi-Pot Tested
 - Wide Input Voltage Range: 90~264VAC, 47~63Hz
 - Over Voltage, Over Load, and Short Circuit Protection
 - EMC Compliance
 - UL60950-1, EN60950-1, IEC 60950-1 Safety Approvals
 - Meets CEC, ERP, EISA, and Energy Star Level V Requirements
 - Meets UL 1310 NEC Class 2 Requirement
 - IEC-320-C8 AC Inlet
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DESCRIPTION

The DT24 series offers up to 24 watts of output power in a single output desktop power supply. This series has UL60950-1, EN60950-1, and IEC 60950-1 safety approvals. All units are short circuit, over voltage, and over load protected. All models have an IEC-320-C8 AC inlet and output voltages range from 5 to 48VDC. All units meet CEC, ERP, EISA, and Energy Star Level V requirements as well as UL 1310 NEC Class 2 requirements. These supplies are RoHS compliant and have been 100% burn-in and Hi-pot tested.

SPECIFICATIONS: DT24 Series

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.

INPUT SPECIFICATIONS

Input Voltage Range	90 ~ 264VAC (Full Range)
Input Frequency	47 ~ 63Hz
Input Current (rms)	0.7A at 90VAC max. 0.35A at 264VAC max.
No Load Power Consumption	< 300mW

OUTPUT SPECIFICATIONS

Output Current	See Table
Output Voltage	See Table
Voltage Regulation	+5% / -3%
Output Power	See Table
Ripple & Noise (<i>See Note 2</i>)	±1%
Hold Up Time	> 10ms 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	-20°C to +40°C
Storage Temperature	-20°C to +85°C
Humidity	20% to 90%
MTBF	> 150,000 hours at full load and 25°C ambient temperature

PHYSICAL SPECIFICATIONS

Dimensions (L x W x H)	3.07 x 1.97 x 1.38 inches (78.0 x 50.0 x 35.0 mm)
Net Weight	4.62oz (131g)
AC Input (<i>See Note 1</i>)	IEC-320-C8

SAFETY & EMI

Safety Standards	UL 60950-1 ⁽³⁾ , CSA-C22.2 No.60950-1, NEMKO EN60950-1, CB IEC60950-1
EMI Standards	CISPR Class B, FCC Part 15 Class B, EN55022 Class B, CE

All models meet CEC, ERP, EISA, and Energy Star Level V requirements

All models meet UL 1310 NEC Class 2 requirements

MODEL SELECTION TABLE

Model Number	Input Voltage Range	Output Voltage	Output Current	Ripple & Noise ⁽²⁾	Output Regulation	Output Power
DT15A1Y05K0	90 ~ 264 VAC	5 VDC	3A	50mVp-p	+5% / -3%	15W
DT24A1Y09K0		9 VDC	2.67A	90mVp-p	+5% / -3%	24W
DT24A1Y12K0		12 VDC	2A	120mVp-p	+5% / -3%	24W
DT24A1Y16K0		16 VDC	1.5A	160mVp-p	+5% / -3%	24W
DT24A1Y18K0		18 VDC	1.34A	180mVp-p	+5% / -3%	24W
DT24A1Y24K0		24 VDC	1A	240mVp-p	+5% / -3%	24W
DT24A1Y36K0		36 VDC	0.67A	360mVp-p	+5% / -3%	24W
DT24A1Y48K0		48 VDC	0.5A	480mVp-p	+5% / -3%	24W

NOTES

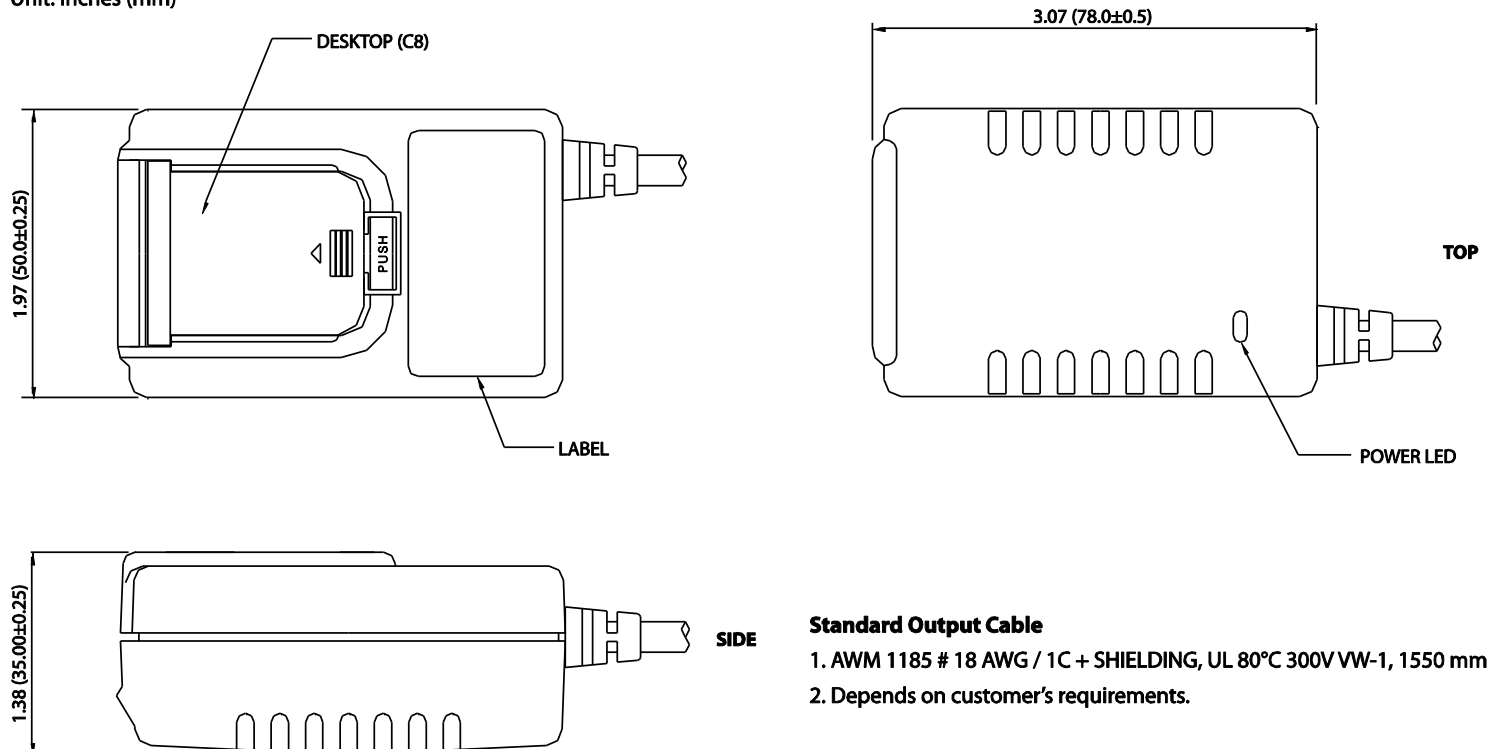
1. All models have an IEC-320-C8 AC inlet.
2. Ripple and Noise is measured at 20MHz bandwidth with a tantalum 10µF in parallel with a 0.1µF ceramic capacitor.
3. This product is Listed to applicable standards and requirements by UL.

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

MECHANICAL DRAWINGS

Unit: inches (mm)

Unit: inches (mm)



Standard Output Cable

1. AWM 1185 # 18 AWG / 1C + SHIELDING, UL 80°C 300V VW-1, 1550 mm
2. 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.

Contact **Wall Industries** for further information:

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