Single Output





Size: 4.21in x 1.85in x 1.19in (107mm x 47mm x 30mm)

OPTIONS

- Output Connector
- Output Voltage

FEATURES

- Wide Operating Voltage of 90~264VAC
- IEC-320-C14 Input Inlet
- Optional Output Connectors Available
- Single Outputs

- Class I System
- Energy Efficiency Level VI
- RoHS Compliant
- Over Current and Short Circuit Protection
- High Efficiency of 84~90%
- 1 Year Warranty

APPLICATIONS

- Ethernet Hub
- Portable Devices
- Charger
- Monitor
- Set-top Box
- AV Equipment

DESCRIPTION

The DTEPU40A series of AC DC desktop power supplies offers up to 40 watts of output power in a 4.2" x 1.85" x 1.19" package. This series offers single output models with output voltages ranging from $5\sim48\text{VDC}$ and a wide input voltage range of $90\sim264\text{VAC}$. Each model is both Energy Efficiency Level VI and RoHS compliant and has high efficiency of $84\sim90\%$. Each model is also protected against both over current and short circuit conditions and has UL/c-UL (UL $60950-1:2^{nd}$ Edition) and TUV/GS (EN $60950-1:2^{nd}$ Edition) safety approvals.

MODEL SELECTION TABLE								
Model Number ⁽¹⁾	Input Voltage Range	Output Voltage	Output Current	Ripple & Noise ⁽⁷⁾	No Load Power Consumption	Output Power	Total Regulation	Efficiency
DTEPU40A-102	90~264VAC	5~5.99VDC	5.00A	- 100mVp-p	0.1 Watts	30W	±5%	89~95%
DTEPU40A-103		6.5~8VDC	3.75~4.61A			30W	±5%	
DTEPU40A-104		8~11VDC	3.18~4.38A			35W	±5%	
DTEPU40A-105		11~13VDC	3.07~3.64A			40W	±5%	
DTEPU40A-106		13~16VDC	2.50~3.07A			40W	±5%	
DTEPU40A-107		16~21VDC	1.90~2.50A			40W	±5%	
DTEPU40A-108		21~27VDC	1.48~1.90A			40W	±3%	
DTEPU40A-109		27~33VDC	1.21~1.48A			40W	±3%	
DTEPU40A-110		33~40VDC	1.00~1.21A			40W	±2%	
DTEPU40A-111		40~48VDC	0.83~1.00A			40W	±2%	

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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 Unit Max Тур **INPUT SPECIFICATIONS** Safety Approvals Input Voltage Range 100 240 VAC Input Voltage Range Operate Voltage Range 90 264 Input Frequency 47 Hz Sine Wave 63 Io=Full Load, Vin=100VAC Low Line 0.9 Input Current Α High Line Io=Full Load, Vin=240VAC 0.52 lo=Full Load, 25°C, Cool Start, Vin=115VAC Low Line 40 50 Inrush Current Α High Line Io=Full Load, 25°C, Cool Start, Vin=230VAC 80 100 **OUTPUT SPECIFICATIONS** Output Voltage See Table Line Regulation⁽⁵⁾ Full Load. Vin=100VAC 0.5 % Load Regulation⁽⁶⁾ Vin=230VAC, 10~90% Load Change at Condition 5 % Output Power See Table **Output Current** See Table mVp-p Ripple & Noise (20MHz BW)(7) Rated Load and Nominal Line 100 Hold-Up Time(8) Io=Full Load, Vin=110VAC 8 mS Start-Up Time Io=Full Load, Vin=100VAC 3 S Temperature Coefficient All Outputs ±0.04 %/°C No Load Power Consumption No Load, Vin=230VAC 0.1 W **PROTECTION** Over Load Protection Recovers automatically after fault condition is removed 110 150 % **Short Circuit Protection** Automatic Recovery **ENVIRONMENTAL SPECIFICATIONS** Operating Temperature Derate linearly from 100% load at 40°C to 50% load at 70°C 0 °C Storage Temperature 10~95% RH -40 85 °C Operating Humidity Non-condensing 0 95 %RH 0 Storage Humidity 95 %RH Air Discharge, IEC61000-4-5 8 Electro Static Discharge kV Contact Discharge, IEC61000-4-2 6 Operating Altitude (Elevation) All conditions 3000 Μ Vibration 10~500Hz, 10min./1cycle, 60min. each along X, Y, Z axes 5 G Line-Neutral Surge Voltage kV Line-PE & Neutral-PE MTBF 100.000 Operating Temperature at 25°C, calculated per MIL-HDBK-217F hours Free Air Convection Cooling Flammability Rating UL94V-1 GENERAL SPECIFICATIONS Efficiency⁽⁹⁾ Io=Full Load, Vin=230VAC 84 90 % Primary to Secondary 4242 Dielectric Withstanding Voltage **VDC** 2550 Primary to PE Test Voltage=500VDC Isolation Resistance 50 MO. Safety Ground Leakage Current Vin=240VAC/60Hz 0.75 mΑ PHYSICAL SPECIFICATIONS Weight 9.35-9.88oz (265-280g) 4.21in x 1.85in x 1.19in Dimensions (L x W x H) (107mm x 47mm x 30mm) SAFETY & EMC CHARACTERISTICS UL/c-UL (UL 60950-1: 2nd Edition)⁽¹⁰⁾ Safety Approvals(2) TUV/GS (EN 60950-1: 2nd Edition) B Class EMC Emission Compliance to EN55022 (CISPR22)

Class I

Protection Classes

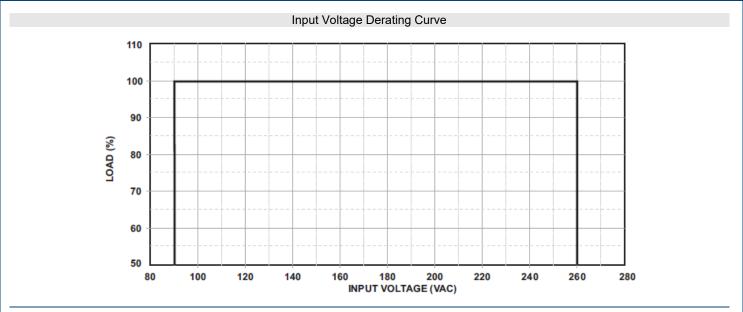


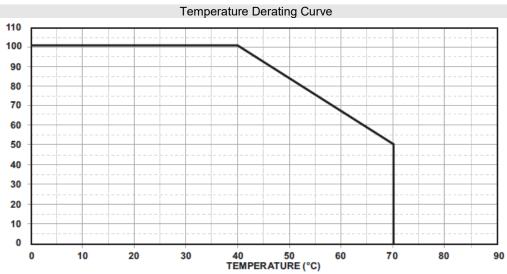
NOTES

- DTEPU40A-102-104 are required to use AWG#14/4FT output cable. DTEPU40A-105-110 are required to use AWG#18/4FT output cable. DTEPU40A-111 is required to use AWG#20/4FT output cable. The electrical characteristics will be changed by modified output cable.
- (2) The DTEPU40A-102 is available on NRCan mark
- (3) Output can provide up to peak load when the power supply starts up. Staying in more than rated load continuously is not allowed.
- (4) Each output is checked to be within voltage accuracy in 60% rated load condition.
- (5) Line regulation is defined by changing ±10% of input voltage from nominal line at rated load.
- (6) Load regulation is defined by changing ±40% of measured output load from 60% rated load.
- (7) Ripple & Noise is measured by using 20MHz bandwidth limited oscilloscope and terminated each output with a 0.47uF capacitor at rated load and nominal line.
- (8) Hold up time is measured from end of the last charging pulse to the time which the main output drops down to low limit of main output at rated load and nominal line.
- (9) Efficiency measured at rated load and nominal line.
- (10) This product is Listed to applicable standards and requirements by UL.

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

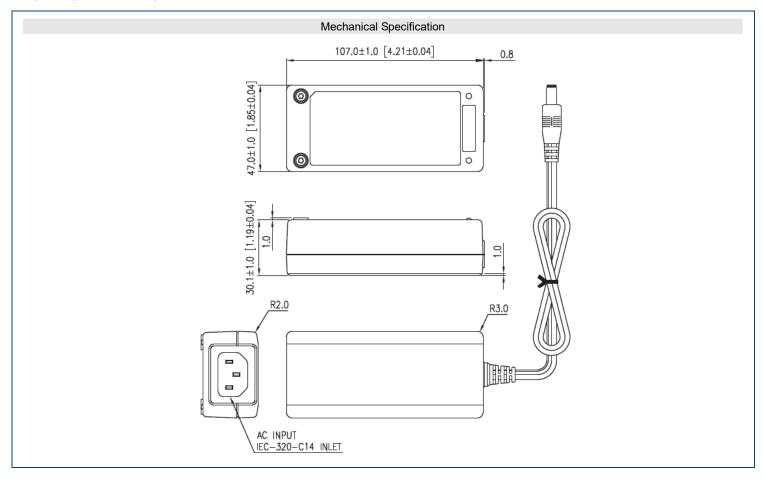
DERATING CURVES -







MECHANICAL DRAWINGS



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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