



Size: 4.23in x 2.64in x 1.42in
(107.5mm x 67mm x 36mm)

OPTIONS

- AC Inlet
 - IEC-320-C14
 - IEC-320-C8
 - IEC-320-C6
 - MANS Cord
- Output Connectors

FEATURES

- Universal Input Voltage
- Meets Energy Star VI
- Meets CEC(2008)/EISA
- PSE Approval
- Short Circuit, Over Voltage and Over Current Protection
- Optional Output Connectors Available
- Passes LPS 11~50V
- Up to 45 Watts of Output Power
- Four AC Inlets Available: IEC-320-C14, IEC-320-C8, IEC-320-C6, or MANS cord
- UL60950-1; CSA C22.2, EN60950-1, IEC60950-1, and J60950-1 Safety Approvals

DESCRIPTION

The DTGPSU40 series of AC/DC desktop power supplies provides up to 45 watts of continuous output power. All models have a single output and a universal input. This series has four types of AC inlet connectors to choose from: IEC-320-C14, IEC-320-C8, IEC-320-C6, and MANS cord. All supplies are CEC, PSE, and Energy Level VI compliant. These supplies also have short circuit, over voltage, and over current protection. This series has UL60950-1; CSA C22.2, EN60950-1, IEC60950-1, and J60950-1 safety approvals. Optional output connectors are also available. Please call factory for order details.

MODEL SELECTION TABLE

IEC-320-C14, IEC-320-C8, IEC-320-C6 Input Models

Model Number ⁽¹⁾⁽³⁾	Input Voltage Range	Output Voltage Range	Output Current	Max. Output Power	Ripple Max	Line Regulation	Load Regulation	Average Efficiency ⁽⁴⁾	No Load Power Consumption	Measured at Output
*DTGPSU40X-1	100~240VAC	5~6VDC	5.00~4.17A	25W	200mV	±1%	±6%	80.24%	<0.3W	5VDC
*DTGPSU40X-1-1		6~8VDC	5.00~3.75A	30W	200mV	±1%	±6%	83.49%		6VDC
*DTGPSU40X-2		8~11VDC	4.38~3.18A	35W	120mV	±1%	±5%	84.46%		9VDC
DTGPSU40X-3		11~13VDC	3.64~3.08A	40W	130mV	±1%	±5%	85.30%		12VDC
DTGPSU40X-4		13~16VDC	3.08~2.50A	40W	250mV	±1%	±5%	85.30%		15VDC
DTGPSU40X-5		16~21VDC	2.82~2.15A	45W	250mV	±1%	±5%	86.03%		18VDC
DTGPSU40X-6		21~27VDC	2.15~1.67A	45W	300mV	±1%	±5%	86.03%		24VDC
DTGPSU40X-7		27~33VDC	1.67~1.37A	45W	300mV	±1%	±5%	86.03%		30VDC
DTGPSU40X-8		33~50VDC	1.37~0.90A	45W	400mV	±1%	±6%	86.03%		48VDC

MODEL SELECTION TABLE

MANS Cord Input Models

Model Number ⁽²⁾⁽³⁾	Input Voltage Range	Output Voltage Range	Output Current	Max. Output Power	Ripple Max	Line Regulation	Load Regulation	Average Efficiency ⁽⁴⁾	No Load Power Consumption	Measured at Output
*DTGPSU40D-1-Y	100~240VAC	5~6VDC	5.00~4.17A	25W	200mV	±1%	±6%	80.24%	<0.3W	5VDC
*DTGPSU40D-1-1-Y		6~8VDC	5.00~3.75A	30W	200mV	±1%	±6%	83.49%		6VDC
*DTGPSU40D-2-Y		8~11VDC	4.38~3.18A	35W	120mV	±1%	±5%	84.46%		9VDC
DTGPSU40D-3-Y		11~13VDC	3.64~3.08A	40W	130mV	±1%	±5%	85.30%		12VDC
DTGPSU40D-4-Y		13~16VDC	3.08~2.50A	40W	250mV	±1%	±5%	85.30%		15VDC
DTGPSU40D-5-Y		16~21VDC	2.82~2.15A	45W	250mV	±1%	±5%	86.03%		18VDC
DTGPSU40D-6-Y		21~27VDC	2.15~1.67A	45W	300mV	±1%	±5%	86.03%		24VDC
DTGPSU40D-7-Y		27~33VDC	1.67~1.37A	45W	300mV	±1%	±5%	86.03%		30VDC
DTGPSU40D-8-Y		33~50VDC	1.37~0.90A	45W	400mV	±1%	±6%	86.03%		48VDC

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.

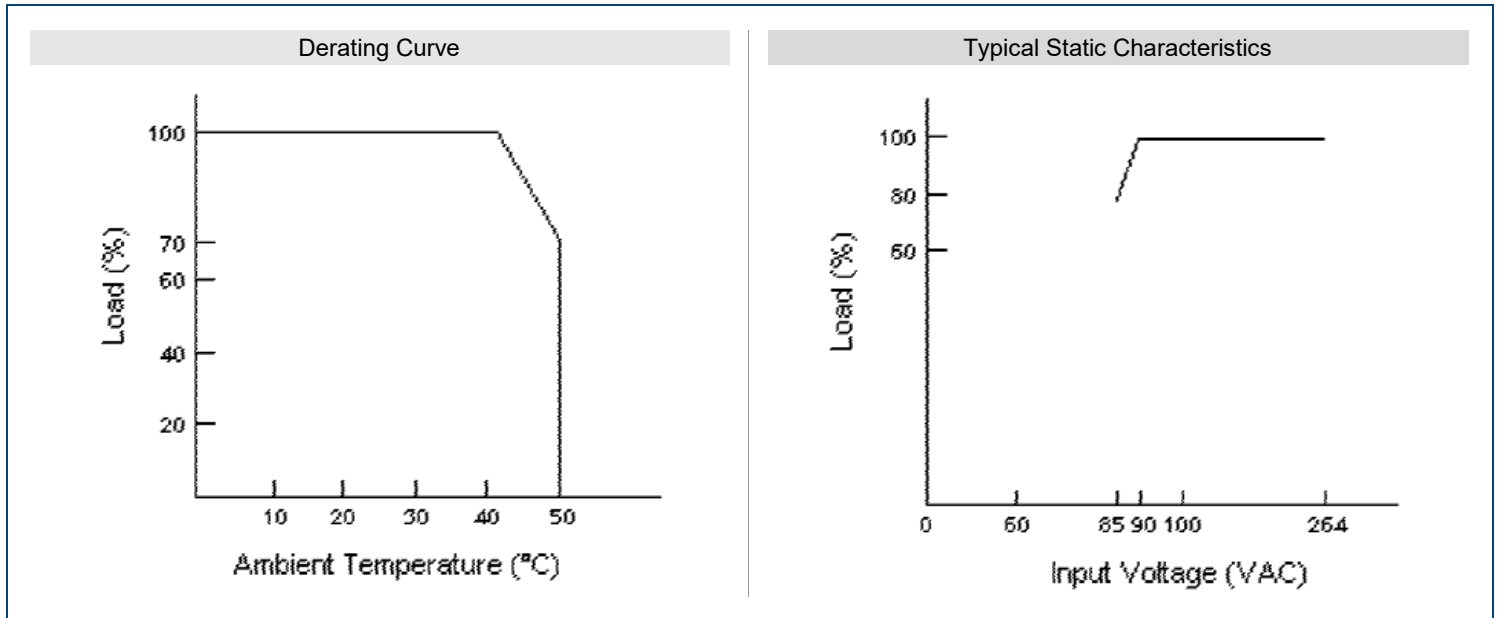
SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
INPUT SPECIFICATIONS					
Input Voltage Range		100		240	VAC
Input Frequency		50		60	Hz
Input Current				1	A
Inrush Current	@115VAC at 25°C, Cold Start			65	A
	@230VAC at 25°C, Cold Start			95	
Safety Ground Leakage Current	Class 1, @240VAC/50Hz		3.5		mA
	Class 2, @240VAC/50Hz		0.25		
OUTPUT SPECIFICATIONS					
Output Voltage		See Table			
Line Regulation		-1		+1	%
Load Regulation	5VDC, 6VDC and 48VDC	-6		+6	%
	9VDC, 12VDC, 15VDC, 18VDC, 24VDC, 30VDC	-5		+6	
Output Power		See Table			
Output Current		See Table			
Ripple & Noise (20MHz bandwidth)		See Table			
Transient Response	Maximum excursion of 4% or better on all models. Recovering to 1% of final value within 500µs after a 25% step load change				
Set-Up Time	@Full Load		1000		ms
Hold-Up Time	@Full Load		10		ms
Rise Time	@Full Load		500		ms
Temperature Coefficient	All Outputs			±0.04	%/°C
PROTECTION					
Short Circuit Protection	Hiccup Mode	Automatic Recovery			
Over Current Protection	Hiccup Mode	Automatic Recovery			
	Rated Output Current	110			%
Over Voltage Protection	Protected by Zener Diode				
	Rated Output Voltage	110		140	%
ENVIRONMENTAL SPECIFICATIONS					
Operating Temperature		0		40	°C
Storage Temperature		-40		85	°C
Relative Humidity	Non-Condensing	5		95	
Derating	Derating from 100% at +40°C linearly to 70% at 50°C				
MTBF	@Full Load at 25°C	100,000			hours
GENERAL SPECIFICATIONS					
Efficiency		See Table			
Withstand Voltage	From Input to Output		4242		VDC
Insulation Resistance	From Input to Output	50			MΩ
PHYSICAL SPECIFICATIONS					
Weight		Approx. 8.82~14.11oz (250~400g)			
Dimensions (L x W x H)		4.23in x 2.64in x 1.42in (107.5mm x 67mm x 36mm)			
Cord Length		1 meter			
SAFETY					
Safety Approvals		UL60950-1 ⁽⁶⁾ ; CSA C22.2 EN60950-1 IEC60950-1 J60950-1			
EMC		CE: Emission: EN55022; EN61000-3-2,3/Immunity: IEC61000-4-2,3,4,5,6,11 FCC 47 CFR Part 15 Subpart B			

NOTES

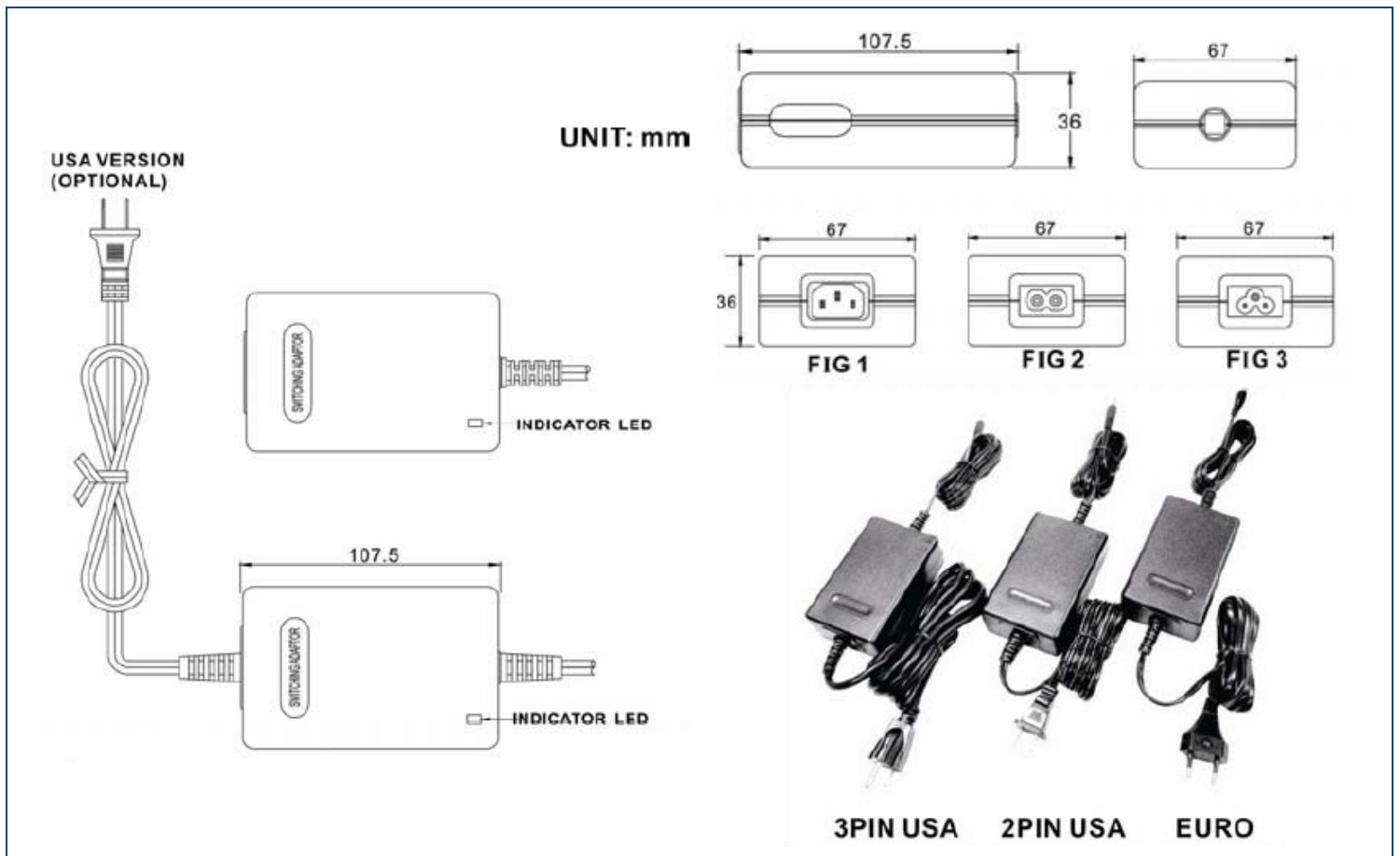
- (1) X can be A for IEC-320-C14 (FIG1), B for IEC-320-C8 (FIG2), or C for IEC-320-C6 (FIG3), or D for MANS Cord Input.
- (2) Y can be U1 for 3 Pin USA type AC power cord (with FG), U for 2 Pin US type AC power cord, or E for European type power cord.
- (3) "*" next to Model Name indicated no LPS safety.
- (4) Efficiency is the average efficiency measured at 25%, 50%, 75%, and 100% load.
- (5) All specifications in the rating charts are measured at the preset output voltage.
- (6) Optional output connectors are available. Please call factory for ordering details.
- (7) Standard Output Cable: 5~11V: SPT-2, 16AWG, 4FT
11~50V: SPT-1, 18AWG, 6FT
- (8) 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.

Contact **Wall Industries** for further information:

Phone: ☎ (603)778-2300
Toll Free: ☎ (888)597-9255
Fax: ☎ (603)778-9797
E-mail: sales@wallindustries.com
Web: www.wallindustries.com
Address: 37 Industrial Drive
Exeter, NH 03833

©2019 Wall Industries, Inc. Specifications subject to change without notice. Wall Industries is not responsible for typographical errors. The information contained herein is for informational purposes only. This information is provided by Wall Industries and we make no representations or warranties of any kind, express or implied, about the completeness, accuracy, reliability, suitability or availability with respect to the information contained in this document for any purpose. All product and manufacturer names are trademarks or registered trademarks of their respective companies.