



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 <sup>(1)(3)</sup>	Input Voltage Range	Preset Voltage	Output Voltage Range	Output Current	Ripple & Noise	Line Regulation	Load Regulation	Maximum Output Power	Average Efficiency <sup>(4)</sup>
*DTGPSU40X-1	100~240VAC	5VDC	5~6VDC	5.00~4.17A	200mV	±1%	±6%	25W	80.24%
*DTGPSU40X-1-1		6VDC	6~8VDC	5.00~3.75A	200mV	±1%	±6%	30W	83.49%
*DTGPSU40X-2		9VDC	8~11VDC	4.38~3.18A	120mV	±1%	±5%	35W	84.46%
DTGPSU40X-3		12VDC	11~13VDC	3.64~3.08A	130mV	±1%	±5%	40W	85.30%
DTGPSU40X-4		15VDC	13~16VDC	3.08~2.50A	250mV	±1%	±5%	40W	85.30%
DTGPSU40X-5		18VDC	16~21VDC	2.82~2.15A	250mV	±1%	±5%	45W	86.03%
DTGPUS40X-6		24VDC	21~27VDC	2.15~1.67A	300mV	±1%	±5%	45W	86.03%
DTGPSU40X-7		30VDC	27~33VDC	1.67~1.37A	300mV	±1%	±5%	45W	86.03%
DTGPSU40X-8		48VDC	33~50VDC	1.37~0.90A	400mV	±1%	±6%	45W	86.03%

**MODEL SELECTION TABLE**

MANS Cord Input Models

Model Number <sup>(2)(3)</sup>	Input Voltage Range	Preset Voltage	Output Voltage Range	Output Current	Ripple & Noise	Line Regulation	Load Regulation	Maximum Output Power	Average Efficiency <sup>(4)</sup>
*DTGPSU40D-1-Y	100~240VAC	5VDC	5~6VDC	5.00~4.17A	200mV	±1%	±6%	25W	80.24%
*DTGPSU40D-1-1-Y		6VDC	6~8VDC	5.00~3.75A	200mV	±1%	±6%	30W	83.49%
*DTGPSU40D-2-Y		9VDC	8~11VDC	4.38~3.18A	120mV	±1%	±5%	35W	84.46%
DTGPSU40D-3-Y		12VDC	11~13VDC	3.64~3.08A	130mV	±1%	±5%	40W	85.30%
DTGPSU40D-4-Y		15VDC	13~16VDC	3.08~2.50A	250mV	±1%	±5%	40W	85.30%
DTGPSU40D-5-Y		18VDC	16~21VDC	2.82~2.15A	250mV	±1%	±5%	45W	86.03%
DTGPUS40D-6-Y		24VDC	21~27VDC	2.15~1.67A	300mV	±1%	±5%	45W	86.03%
DTGPSU40D-7-Y		30VDC	27~33VDC	1.67~1.37A	300mV	±1%	±5%	45W	86.03%
DTGPSU40D-8-Y		48VDC	33~50VDC	1.37~0.90A	400mV	±1%	±6%	45W	86.03%

**SPECIFICATIONS**

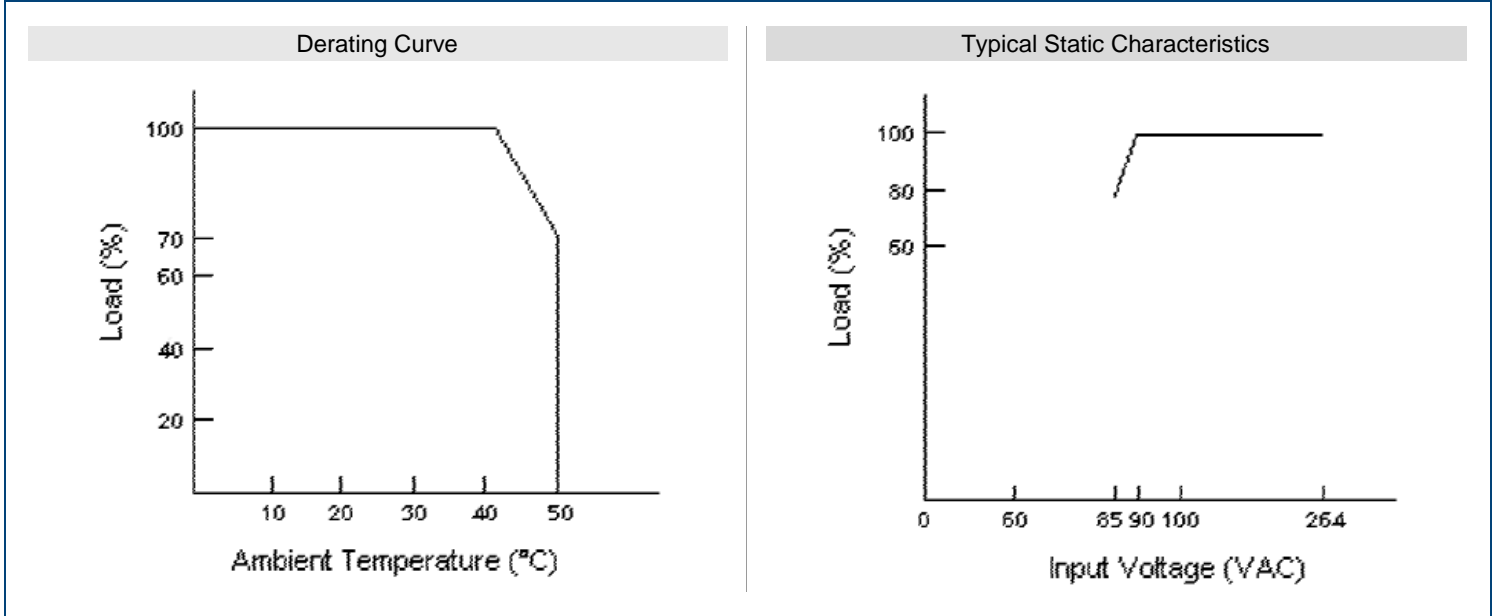
All specifications are based on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted.  
 We reserve the right to change specifications based on technological advances.

SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
<b>INPUT SPECIFICATIONS</b>					
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		
<b>OUTPUT SPECIFICATIONS</b>					
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
<b>PROTECTION</b>					
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	%
<b>ENVIRONMENTAL SPECIFICATIONS</b>					
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
<b>GENERAL SPECIFICATIONS</b>					
Efficiency		See Table			
Withstand Voltage	From Input to Output		4242		VDC
Insulation Resistance	From Input to Output	50			MΩ
<b>PHYSICAL SPECIFICATIONS</b>					
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			
<b>SAFETY</b>					
Safety Approvals	UL60950-1; 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				

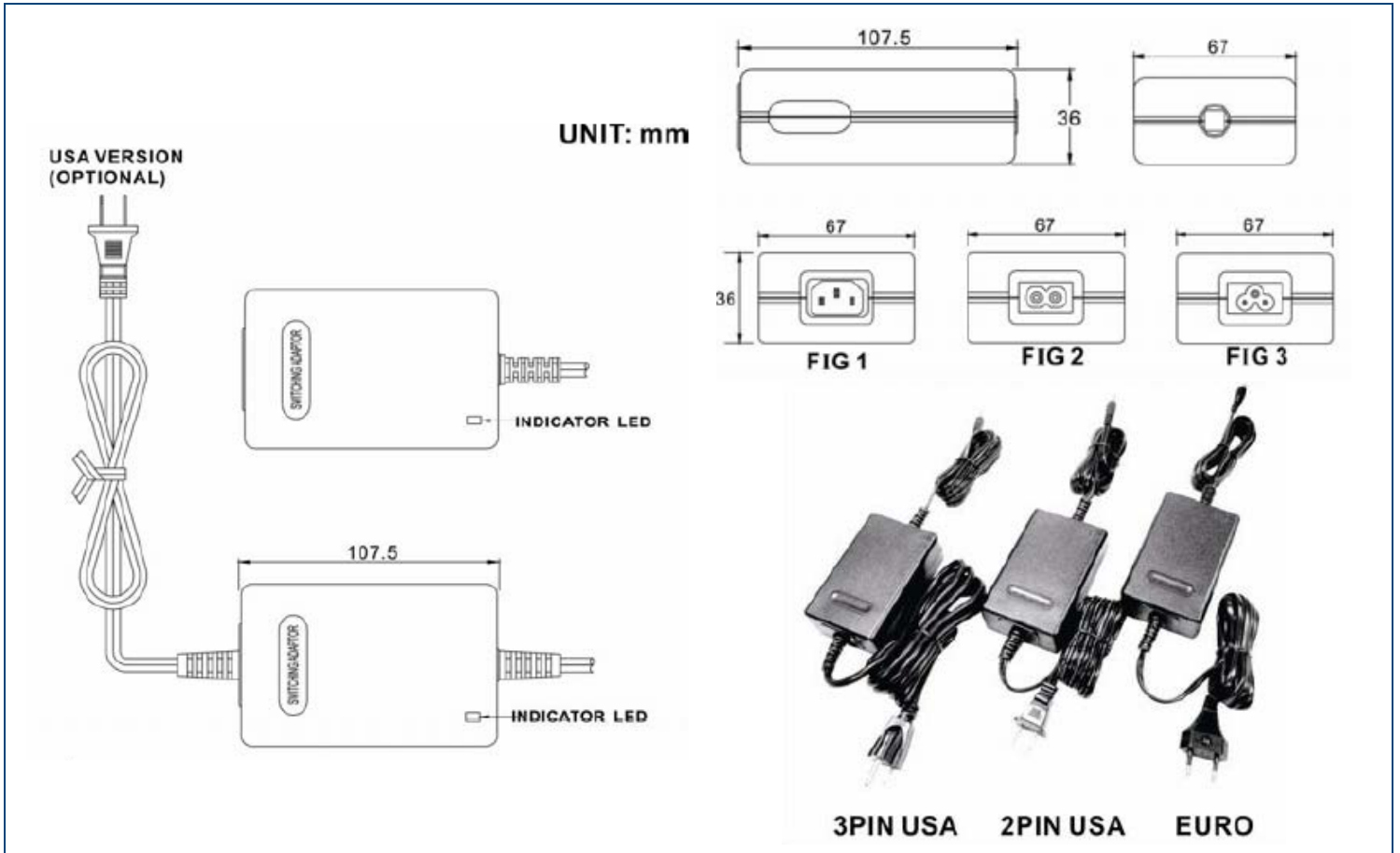
**NOTES**

- (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

DERATING CURVES



MECHANICAL DRAWINGS



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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 ISO9001-2008 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](mailto:sales@wallindustries.com)  
Web: [www.wallindustries.com](http://www.wallindustries.com)  
Address: 37 Industrial Drive  
Exeter, NH 03833