

IEC-320-C14 Inlet



IEC-320-C8 Inlet



IEC-320-C6 Inlet



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, Mains Cord
- Cord Type  
-3 Pin USA, 2 Pin USA, Europe

**FEATURES**

- Universal Input Voltage
- Single Output
- 3 Pin USA, 2 Pin USA, or European Plugs Available
- IEC-320-C14, IEC-320-C8, IEC-320-C6, or Mains Cord Input Options Available
- Meets EISA 2007/DoE (VI) and EU ErP/CoC (5) for 11~50VDC Models
- Short Circuit, Over Current, and Over Voltage Protection
- UL60950-1; CSA C22.2, EN60950-1, IEC60950-1, PSE and J60950-1 Safety Approvals

**DESCRIPTION**

The DTGPSU30 series of AC/DC desktop power supply offers up to 30 watts of output power in a 4.23" x 2.64" x 1.42" package. This series consists of single output models with a universal input voltage and high efficiency. Several options are available for this series including AC inlet and cord type. Each model in this series has short circuit, over current, and over voltage protection while 11~50VDC models meet EISA 2007/DoE (VI) and EU ErP/CoC (5). This series has UL60905-1; CSA C22.2, EN60950-1, IEC60950-1, PSE and J60950-1 safety approvals. Please contact factory for order details.

**MODEL SELECTION TABLE**

Model Number <sup>(1)</sup>	Input Voltage Range	Output Voltage Range	Output Current		Max. Output Power	Ripple Max	Load Regulation	Efficiency		No Load Power Consumption	Measured at Output
			Min Load	Max Load				DoE (VI)	CoC (5)		
*DTGPSU30X-0Y	100~240VAC	3~5VDC	5A		15~25W	50mV	5%	(V) >77.13%	(4) >77.13%	<0.3W	3.3
*DTGPSU30X-1Y		5~6VDC	4.17A	5.00A	25W	50mV	3%	(V) >80.24%	(4) >80.24%	<0.3W	5
*DTGPSU30X-1-1Y		6~8VDC	3.13A	4.15A	25W	80mV	3%	(V) >82.35%	(4) >82.35%	<0.3W	7.5
DTGPSU30X-2Y		8~11VDC	3.71A	2.73A	30W	80mV	3%	(V) >83.49	(4) >83.49	<0.3W	9
DTGPSU30X-3Y		11~13VDC	2.31A	2.70A	30W	120mV	2%	(VI) >86.95%	(5) >87.70%	<0.075W	12
DTGPSU30X-4Y		13~16VDC	1.88A	2.29A	30W	140mV	2%	(VI) >86.95%	(5) >87.70%	<0.075W	15
DTGPSU30X-5Y		16~21VDC	1.43A	1.86A	30W	140mV	8%	(VI) >86.95%	(5) >87.70%	<0.075W	18
DTGPSU30X-6Y		21~27VDC	1.12A	1.43A	30W	150mV	8%	(VI) >86.95%	(5) >87.70%	<0.075W	24
DTGPSU30X-7Y		27~33VDC	0.91A	1.12A	30W	240mV	5%	(VI) >86.95%	(5) >87.70%	<0.075W	28
DTGPSU30X-8Y		33~50VDC	0.61A	0.91A	30.5W	240mV	5%	(VI) >86.99%	(5) >87.76%	<0.075W	48

\*No LPS Safety

**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.

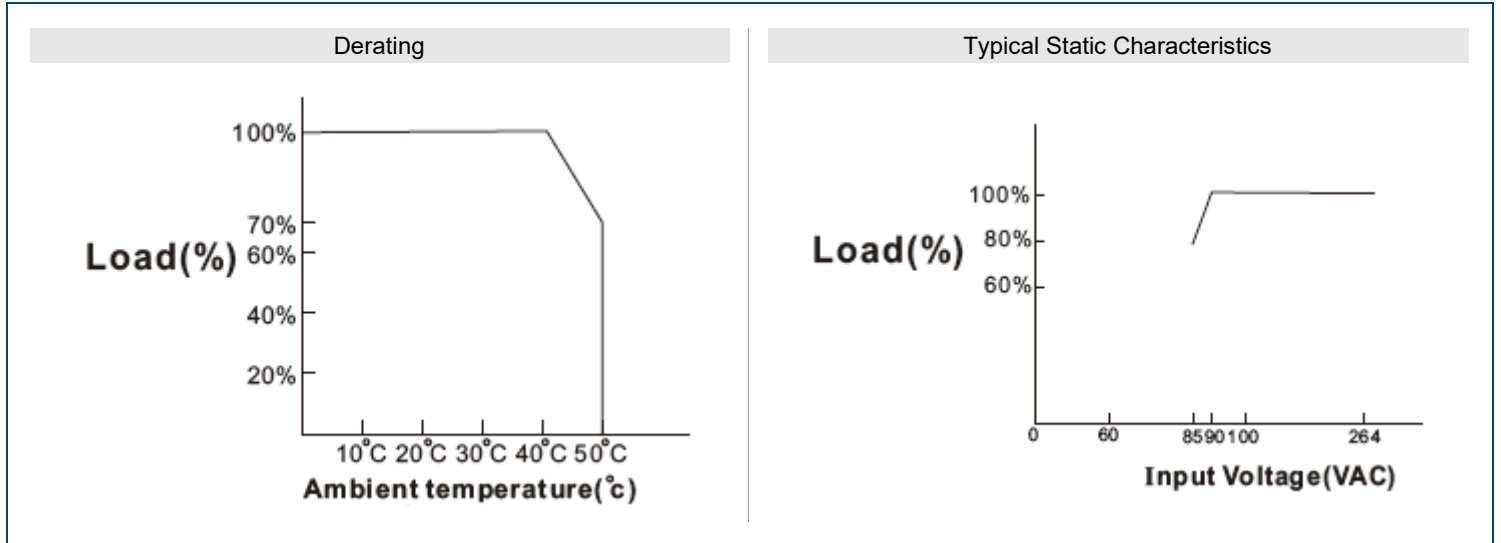
SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
<b>INPUT SPECIFICATIONS</b>					
Input Voltage Range		100		240	VAC
Input Frequency		50		60	Hz
Input Current				0.7	A
Inrush Current	@115VAC at 25°C Cold Start		65		A
	@230VAC at 25°C Cold Start		95		
Leakage Current	Class I @240VAC/50Hz			3.5	mA
	Class II @240VAC/50Hz			0.25	
<b>OUTPUT SPECIFICATIONS</b>					
Output Voltage				See Table	
Line Regulation	For any input voltage change between input voltage range			±1	%
Load Regulation	Typical ±5% variations from min to max output current			See Table	
Output Power				See Table	
Output Current				See Table	
Ripple				See Table	
Transient Response	Maximum excursion of 4% or better on all models. Recovering to 1% of final value within 500uS after 25% load change				
Set Up Time	@Full Load		300		ms
Hold Up Time	@Full Load		10		ms
Rise Time	@Full Load		50		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 Voltage	110			%
Over Voltage Protection	Protected by Zener Diode				
	Rated Output Voltage	110		140	%
<b>ENVIRONMENTAL SPECIFICATIONS</b>					
Operating Temperature	See Derating Curve	0		40	°C
Storage Temperature		-40		85	°C
Relative Humidity	Non-Condensing	5		95	%
Derating	Derated from 100% at 40°C linearly to 70% at 50°C				
MTBF	@Full Load at 25°C Ambient	100,000			Hours
<b>GENERAL SPECIFICATIONS</b>					
Efficiency				See Table	
Withstanding Voltage	From Input to Output		4242		VDC
Isolation Resistance	From Input to Output	50			MΩ
<b>PHYSICAL SPECIFICATIONS</b>					
Weight				10.58~14.11oz (300~400g)	
Dimensions (L x W x H)				4.23in x 2.64in x 1.42in (107.5mm x 67mm x 36mm)	
<b>SAFETY CHARACTERISTICS</b>					
Safety Approvals		UL60950-1 <sup>(6)</sup> ; CSA C22.2 EN60950-1 IEC60950-1 J60950-1 PSE			
EMC		CE: Emission: EN55022 EN61000-3-2, 3/Immunity: IEC61000-4-2,3, 4, 5, 6, 11 FCC 47 CFR Part F15 Subpart B			

**NOTES**

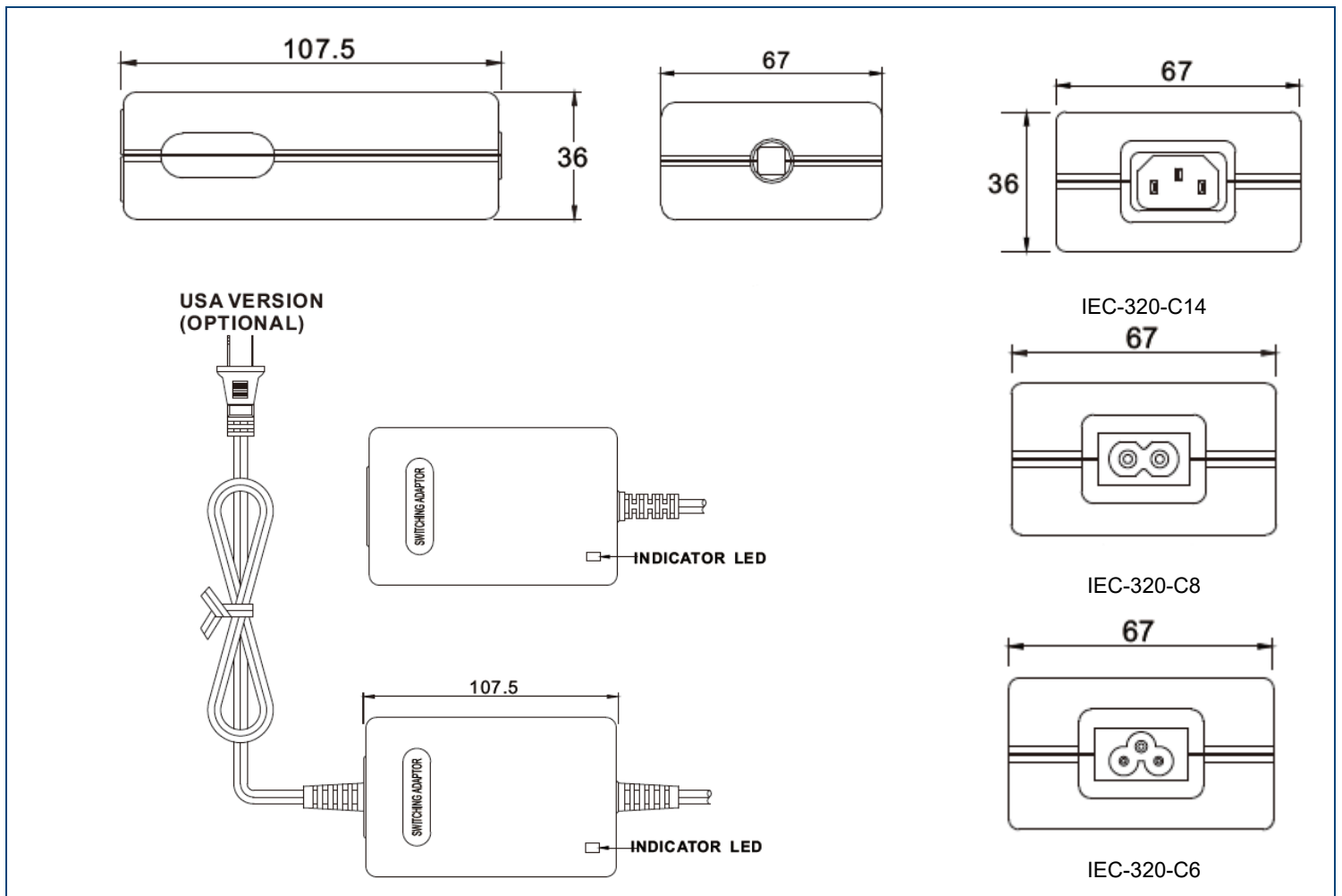
- "X" indicates AC inlet. "X" can either be "A" for IEC-320-C14, "B" for IEC-320-C8, "C" for IEC-320-C6, or "D" for Mains Cord. "Y" in the model name indicates mains cord type. "Y" can either be "U" for 2-Pin American cord, "U1" for 3-Pin American cord, or "E" for European cord. "Y" will only change if "D" is selected to represent "X".
- The load regulation c/be at ±5% with remote sensor
- Avg. Eff. (%): Averages the efficiency at 25, 50, 75, and 100% of max. rated output current.
- Standard Output Cable: 5~21V: UL2468, 16AWG, 1M  
21~50V: UL2468, 18AWG, 6FT
- 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



MODEL NUMBER SETUP

DTGPSU	30	X	-	5	Y
Series Name	Output Power	AC Inlet		Output Voltage	Remote On/Off & Pin Length
		<b>A:</b> IEC-320-C14 <b>B:</b> IEC-320-C8 <b>C:</b> IEC-320-C6 <b>D:</b> MAINS CORD		<b>0:</b> 3~5VDC <b>1:</b> 5~6VDC <b>1-1:</b> 6~8VDC <b>2:</b> 8~11VDC <b>3:</b> 11~13VDC <b>4:</b> 13~16VDC <b>5:</b> 16~21VDC <b>6:</b> 21~27VDC <b>7:</b> 27~33VDC <b>8:</b> 33~50VDC	<b>U:</b> 2-Pin US Cord <b>U1:</b> 3-Pin US Cord <b>E:</b> European Cord

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](mailto:sales@wallindustries.com)  
 Web: [www.wallindustries.com](http://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.