



IEC-320-C8

US Plug

EU Plug

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



**FEATURES**

- Universal Input Voltage Range of 100~240VAC
- 2 Color LED Indicator for Loading Status
- IEC-320-C8, US Plug, and EU Plug Inlets
- Class 2
- Constant Voltage & Constant Current
- Over Voltage, Over Current, Short Circuit, and Over Temperature Protection
- Optional Output Connectors Available
- UL 60950-1; CSA C22.2, EN60950-1, and IEC60950-1 Safety Approvals

**DESCRIPTION**

The DTGPSU30X-CC series of AC/DC desktop power supplies 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 range of 100~240VAC and constant voltage and constant current. Either IEC0-320-C8, US, or EU plugs are available as well as optional output connectors. This series has over voltage, over current, short circuit, and over temperature protection as well as UL 60950-1; CSA C22.2, EN60950-1, and IEC60950-1 safety approvals. Please call 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	Line Regulation	Charging Voltage Range	Efficiency Min.	No Load Power Consumption	Measured at Output
			Min Load	Max Load							
*DTGPSU30X-0-CC	100~240VAC	3~5VDC	4A		20W	50mV	1%	3.6~4.4V	>55%	<1W	4.2
*DTGPSU30X-1-CC		5~6VDC	3.73A	4.00A	22.38W	50mV	0.5%	5~5.8V	>70%		5.6
DTGPSU30X-1-1-CC		6~8VDC	2.70A	3.60A	21.60W	80mV	0.5%	6.5~7.5V	>70%		7.2
DTGPSU30X-2-CC		8~11VDC	2.30A	3.15A	25.20W	80mV	0.5%	7.7~8.6V	>70%		8.4
DTGPSU30X-4-CC		13~16VDC	1.87A	2.30A	30W	100mV	0.5%	13.5~14.5V	>78%		14.3
DTGPSU30X-5-CC		16~21VDC	1.28A	1.68A	27W	100mV	0.5%	16~17V	>78%		16.8
DTGPSU30X-6-CC		27~33VDC	0.90A	1.11A	30W	150mV	0.5%	27.1~28.8V	>80%		28.6

\*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, 25°C, Cold Start		15		A
	@230VAC, 25°C, Cold Start		40		A
Leakage Current	@240VAC/50Hz			0.25	mA
<b>OUTPUT SPECIFICATIONS</b>					
Output Voltage					See Table
Line Regulation	For any input voltage change between input voltage range				See Table
Load Regulation	Variations from minimum to maximum output current		±5		%
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 a 25% step load change.				
Set Up Time			3000		mS
Hold Up Time			10		mS
Rise Time			50		mS
No Load Power Consumption				1	W
Temperature Coefficient	All Outputs			±0.04	%/°C
<b>PROTECTION</b>					
Short Circuit Protection					Yes
Over Current Protection					Yes
Over Voltage Protection	Protected by Zener Diode				110~135% Rated Output Voltage
Over Thermal Protection	Automatic Recovery by IC1 Tj				140°C±10°C
Constant Current Protection					90~110% Constant Limiting

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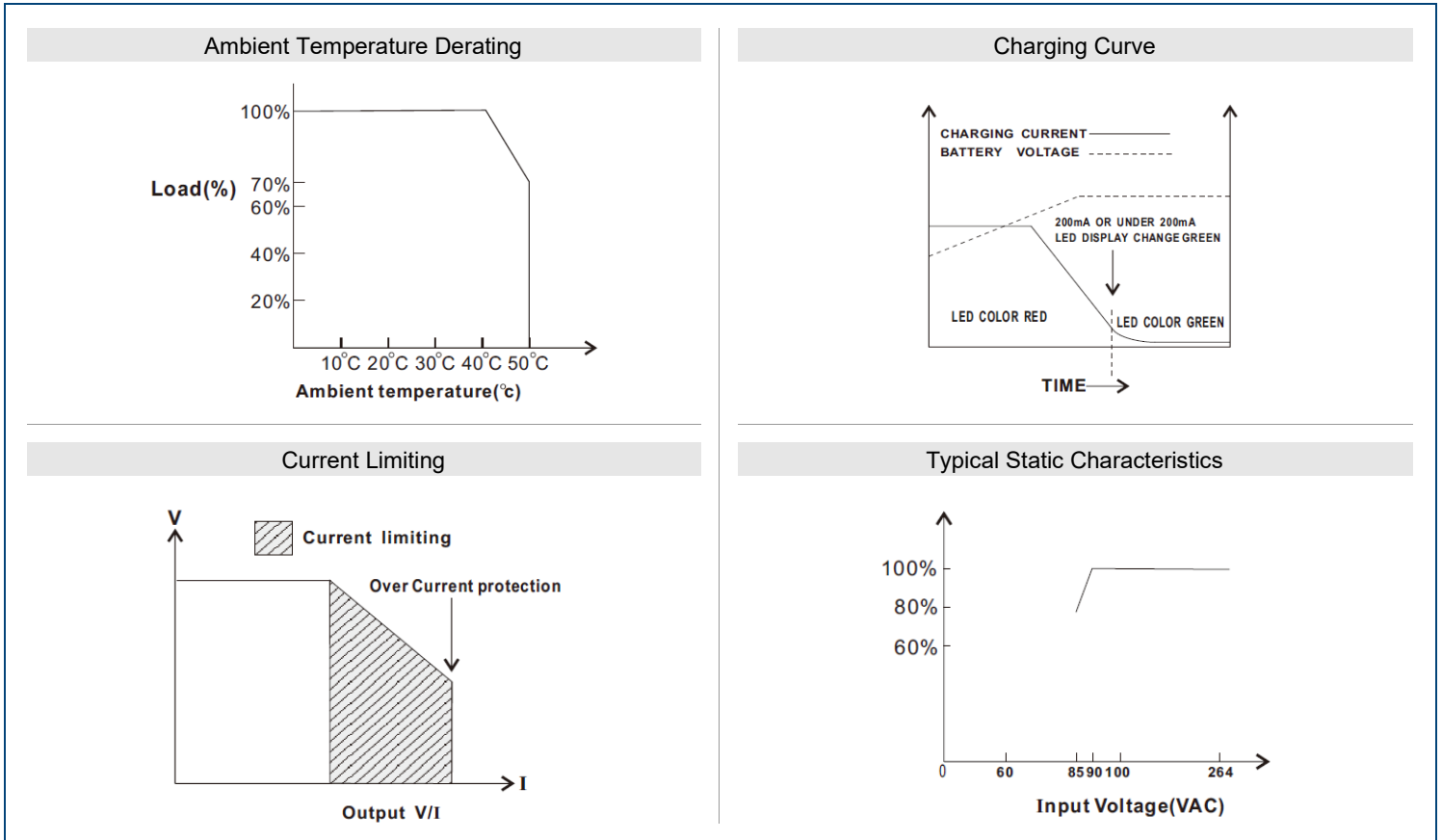
SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
<b>ENVIRONMENTAL SPECIFICATIONS</b>					
Operating Temperature		0		40	°C
Storage Temperature		-40		+85	°C
Relative Humidity	Non-Condensing	5		95	%RH
Derating	Derated from 100% at 40°C linearly to 70% at 50°C				
MTBF	@Full Load, 25°C Ambient	100,000			Hours
<b>GENERAL SPECIFICATIONS</b>					
Efficiency			See Table		
Withstand Voltage	From Input to Output		4242		VDC
<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	UL 60950-1 <sup>(3)</sup> ; CSA C22.2, EN60950-1, IEC60950-1 CE: Emission: EN55022				
EMC	EN61000-3-2, 3/Immunity: IEC61000-4-2, 3, 4, 5, 6, 11 FCC 47 CFR Part 15 Subpart B. ICES-003 Issue 4 ANSI C63.4-2003				

**NOTES**

1. "X" in model number indicates inlets. "X" can either be "B" for IEC-320-C8, "U" for 2-Pin American plug type, or "E" for European plug type.
2. Optional output connectors.
3. This product is Listed to applicable standards and requirements by UL.

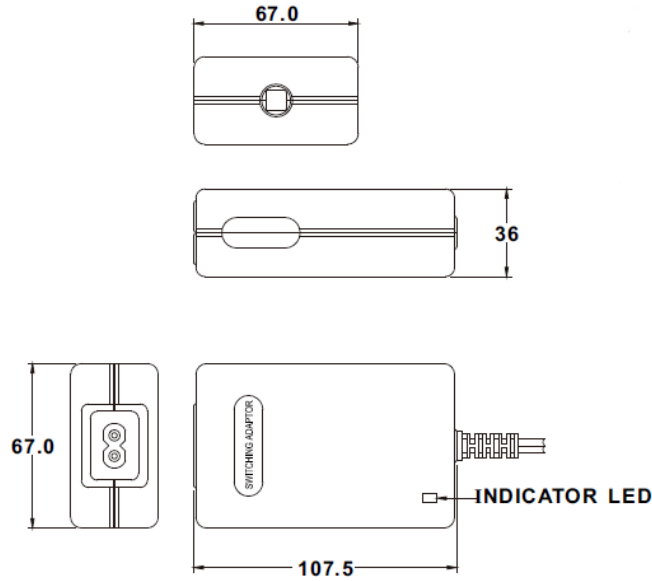
*\*Due to advances in technology, specifications subject to change without notice.*

**DERATING CURVES**



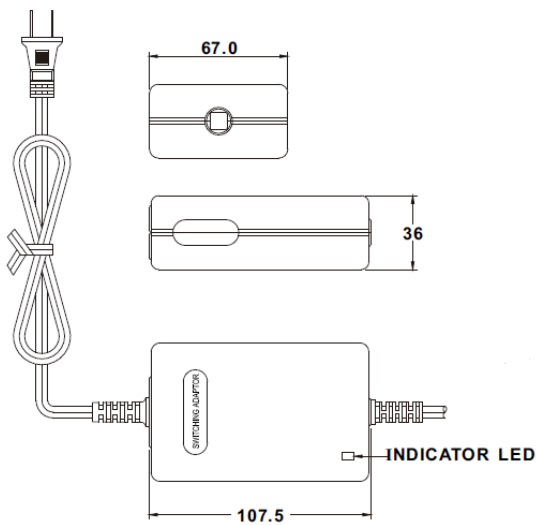
MECHANICAL DRAWINGS

IEC-320-C8 Inlet



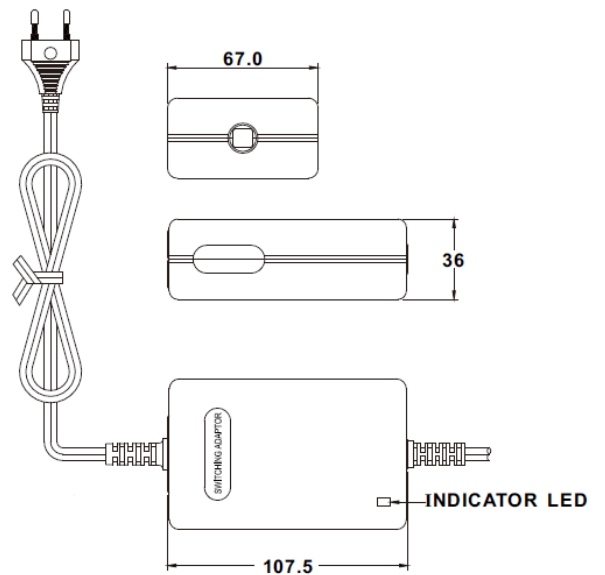
USA Plug

USA



EU Plug

EURO



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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: 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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