

IEC-320-C14 Inlet



IEC-320-C8 Inlet



IEC-320-C6 Inlet



Size: 3.94in x 2.3in x 1.29in (100mm x 58.5mm x 32.8mm)

**OPTIONS**

- AC Inlet
  - IEC-320-C14
  - IEC-320-C8
  - IEC-320-C6
- Output Connector

**FEATURES**

- Universal Input Voltage of 100~240VAC
- Output Voltages Ranging from 5V~48V
- Single Outputs
- High Efficiency Up to 85.45%
- Optional AC Inlets Available
- Optional Output Connectors Available
- Short Circuit, Over Voltage, and Over Current Protection
- Meets EISA 2007/DoE VI &EU ErP/CoC 5
- UL60950-1, CSA C22.2, EN60950-1, IEC60950-1, and J60950-1 Safety Approvals

**DESCRIPTION**

The DTGPSU18 series of AC DC desktop power supplies offers up to 18 watts of output power in a 3.94" x 2.3" x 1.29" package. This series consists of single output models with a universal input range of 100~240VAC and output voltages ranging from 5V~48V. Three AC inlets are available for the models: IEC-320-C14, IEC-320-C8, or IEC-320-C6. Each model in this series is protected against short circuit, over voltage, and over current conditions and also has UL60950-1, CSA C22.2, EN60950-1, IEC60950-1 and J60950-1 safety approvals. This series has a high efficiency up to 85.45% and are efficiency Level VI compliant. 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 & Noise	Efficiency <sup>(2)</sup>		No Load Power Consumption	Measured at Output
			Min Load	Max Load			DoE (VI)	CoC (5)		
DTGPSU18x-1	100~240VAC	5~6VDC	2.50A	3.00A	15W	80mV	81.39%	81.84%	<0.3W	5
DTGPSU18x-2		8~11VDC	1.64A	2.25A	18.04W	100mV	85%	85.45%	<0.3W	9
DTGPSU18x-3		11~13VDC	1.38A	1.64A	18.04W	120mV	85%	85.45%	<0.3W	12
DTGPSU18x-4		13~16VDC	1.13A	1.38A	18.08W	150mV	85%	85.45%	<0.1W	15
DTGPSU18x-5		16~21VDC	0.86A	1.13A	18.08W	150mV	85%	85.45%	<0.1W	18
DTGPSU18x-6		21~27VDC	0.67A	0.86A	18.09W	150mV	85%	85.45%	<0.1W	24
DTGPSU18x-7		27~33VDC	0.55A	0.67A	18.15W	240mV	85%	85.45%	<0.1W	28
DTGPSU18x-8		33~58VDC	0.32A	0.55A	18.56W	240mV	85%	85.45%	<0.1W	48

**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.

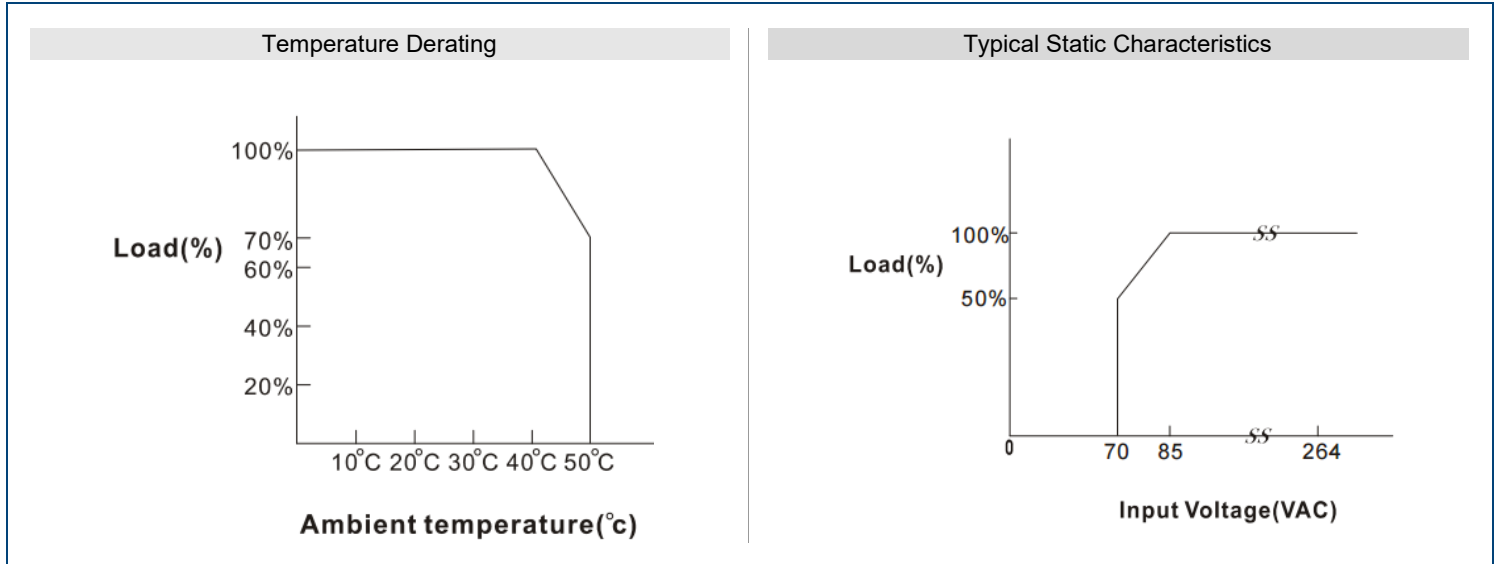
SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
<b>INPUT SPECIFICATIONS</b>					
Input Voltage Range		100		240	VAC
Input Frequency		47		63	Hz
Input Current		0.45		0.2	A
Inrush Current	@115VAC at 25°C Cold Start		50		A
	@230VAC at 25°C Cold Start		90		A
Leakage Current	@240VAC/50Hz			0.1	mA
<b>OUTPUT SPECIFICATIONS</b>					
Output Voltage		See Table			
Line Regulation	For any input voltage change between input voltage range	-1		+1	%
Load Regulation	Typical variations from minimum to maximum output current.	-5		+5	%
Output Power		See Table			
Output Current		See Table			
Ripple & Noise		See Table			
Transient Response	Recovering to 1% of final value within 500µS after a 25% step load change			≥4	%
Setup Time	@Full Load		1000		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 Rated Output Current	110%			
Over Voltage Protection	Protected by Zener Diode Rated Output Voltage	110		140	%
<b>ENVIRONMENTAL SPECIFICATIONS</b>					
Operating Case Temperature		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			
Insulation Resistance	Input to Output	50			MΩ
Withstand Voltage	Input to Output		4242		VDC
<b>PHYSICAL SPECIFICATIONS</b>					
Weight		4.94~5.64oz (140~160g)			
Dimensions (L x W x H)		3.94in x 2.3in x 1.29in (100mm x 58.5mm x 32.8mm)			
<b>SAFETY</b>					
Safety Approvals		UL60950-1 <sup>(4)</sup> 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**

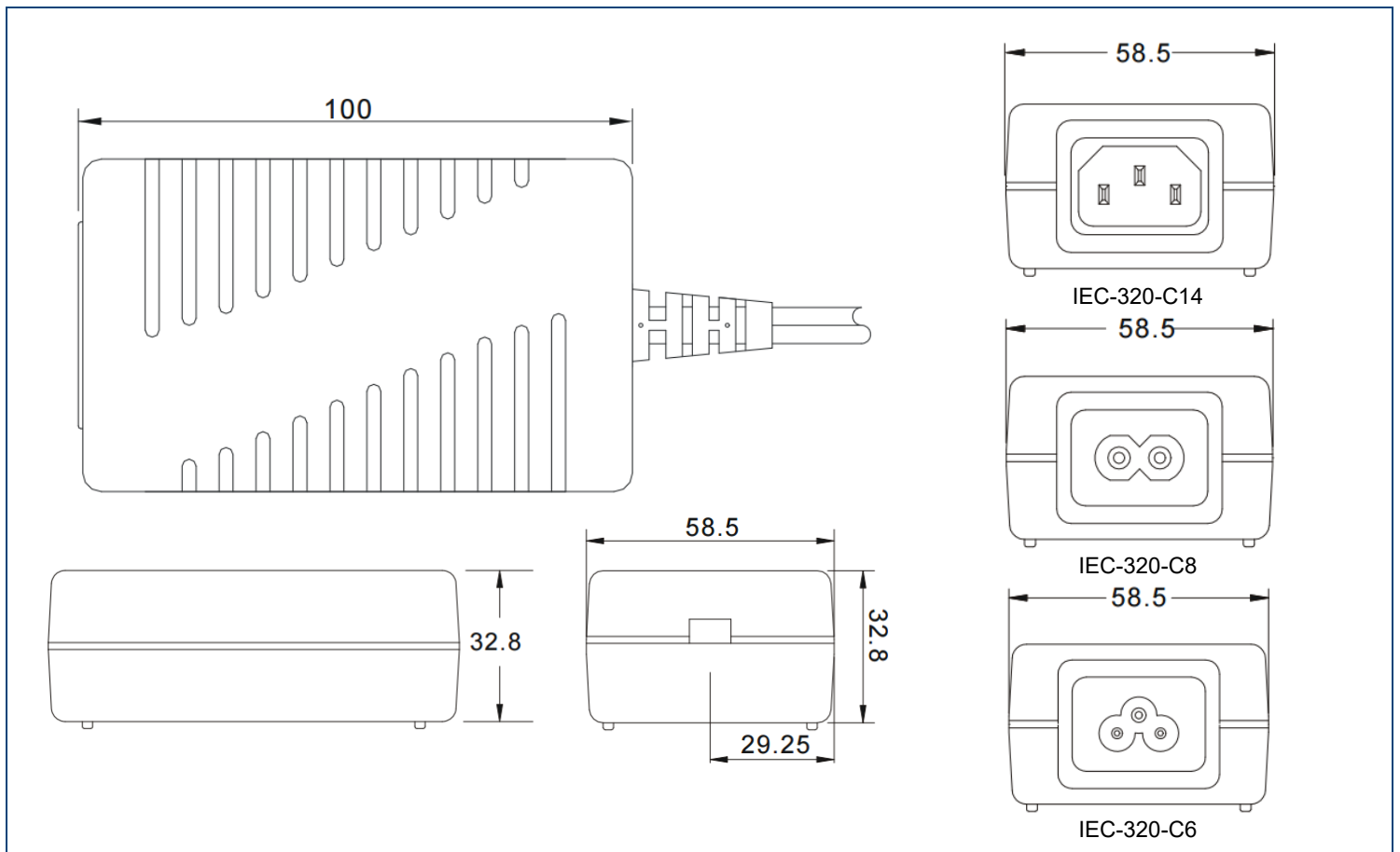
- (1) "x" in model number references the AC inlet options. "x" can either be "A" for IEC-320-C14, "B" for IEC-320-C8, or "C" for IEC-320-C6.
- (2) Avg. Efficiency: Averages the efficiency at 25, 50, 75, and 100% of max. rated output current.
- (3) Optional output connectors available  
Standard Output Cables: 5~11V: UL1571, 16AWG, 1M  
11~13V: UL2468, 18AWG, 1M  
13~58V: UL2468, 22AWG, 5FT
- (4) 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



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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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