

IEC-320-C14



IEC-320-C8



IEC-320-C6



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 Connectors

FEATURES

- Universal Input Voltage of 100~240VAC
- Single Outputs
- Outputs Ranging from 5V~48V
- Low Leakage Current of <0.25mA
- High Efficiency up to 86.97%
- Optional Output Connectors Available
- Meets EISA 2007/DoE (VI) & EU ErP/ CoC (5)
- Short Circuit, Over Voltage, and Over Current Protection
- 3 AC Inlets Available: IEC-320-C14, IEC-320-C8, or IEC-320-C6
- UL60950-1, CSA C22.2, EN60950-1, IEC60950-1, and J60950-1 Safety Approvals

DESCRIPTION

The DTGPSU25 series of AC DC desktop power supplies offers up to 25 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. There are 3 AC inlets available for this series: IEC-320-C14, IEC-320-C8, IEC-320-C6, and multiple different output connectors are also available. This series has high efficiency and low leakage current, as well as short circuit, over voltage, and over current protection. All models are Level VI compliant and UL60950-1, CSA C22.2, EN60950-1, IEC60950-1, and J60950-1 safety approvals. Please call factory for order details.

MODEL SELECTION TABLE

Model Number ⁽¹⁾	Input Voltage Range	Output Voltage Range	Output Current		Max. Output Power	Ripple & Noise	Efficiency ⁽²⁾		No Load Power Consumption	Measured at Output
			Min Load	Max Load			DoE (VI)	CoC (5)		
DTGPSU25x-1	100~240VAC	5~6VDC	3.33A	4A	20W	100mV	83.08%	83%	0.075W	5
DTGPSU25x-1-1		6~8VDC	2.75A	3.66A	22W	100mV	85.86%	86.41%		7.5
DTGPSU25x-2		8~11VDC	2.27A	3.125A	25W	100mv	86.35%	86.97%		9
DTGPSU25x-3		11~13VDC	1.92A	2.27A	25W	120mV	86.35%	86.97%		12
DTGPSU25x-4		13~16VDC	1.56A	1.92A	25W	120mV	86.35%	86.97%		15
DTGPSU25x-5		16~21VDC	1.19A	1.56A	25W	180mV	86.35%	86.97%		18
DTGPSU25x-6		21~27VDC	0.926A	1.19A	25W	180mV	86.35%	86.97%		24
DTGPSU25x-7		27~33VDC	0.757A	0.926A	25W	240mV	86.35%	86.97%		30
DTGPSU25x-8		33~58VDC	0.43A	0.757A	25W	240mV	86.35%	86.97%		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.

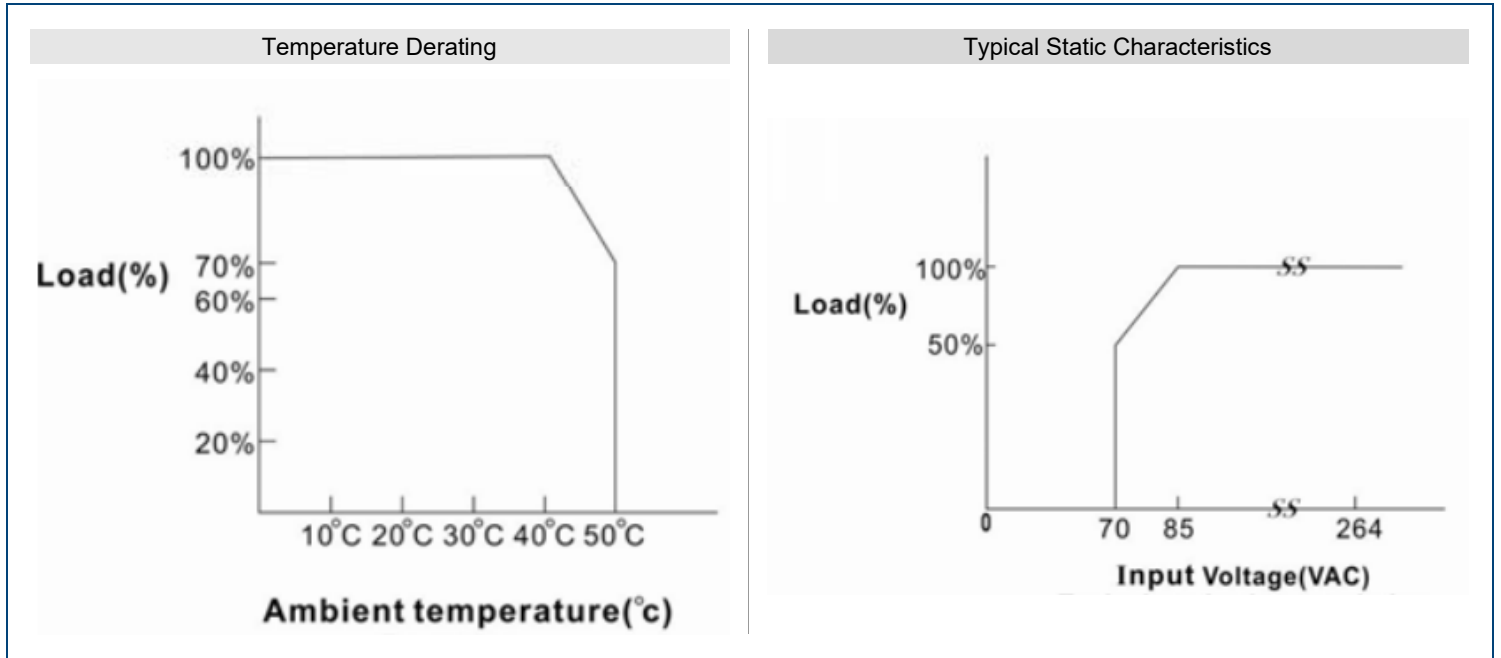
SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
INPUT SPECIFICATIONS					
Input Voltage Range		100		240	VAC
Input Frequency		47		63	Hz
Input Current				0.65	A
Inrush Current	@115VAC at 25°C Cold Start		65		A
	@230VAC at 25°C Cold Start		95		A
Leakage Current	@240VAC/50Hz		0.25		mA
OUTPUT SPECIFICATIONS					
Output Voltage		See Table			
Line Regulation	Maximum for any input voltage change between input voltage range			±1	%
Load Regulation	Variations from minimum to maximum output current	5V, 7.5V, 9V Models	±5		%
		12V, 15V, 18V Models	±3		
		24V, 30V, 48V Models	±2		
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	%
Set Up 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
PROTECTION					
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	%
ENVIRONMENTAL SPECIFICATIONS					
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			
GENERAL SPECIFICATIONS					
Efficiency		See Table			
Insulation Resistance	From Input to Output	50			MΩ
Withstand Voltage	From Input to Output		4242		VDC
PHYSICAL SPECIFICATIONS					
Weight		5.29~6oz (150~170g)			
Dimensions (L x W x H)		3.94in x 2.3in x 1.29in (100mm x 58.5mm x 32.8mm)			
SAFETY					
Safety Approvals		UL60950-1 ⁽⁴⁾ 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

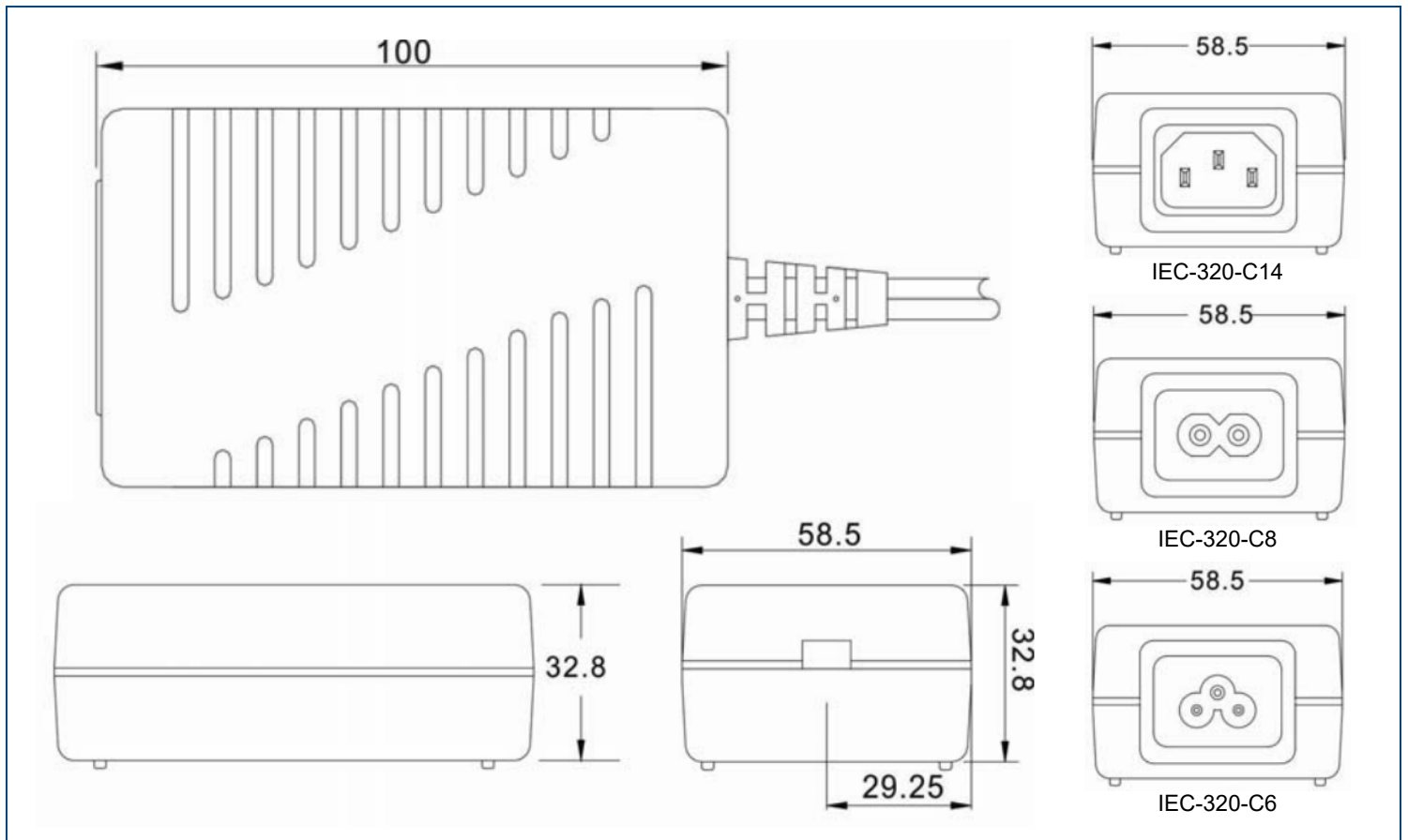
- (1) "x" in the model number represents AC Inlet options. "x" can either be "A" for IEC-320-C14, "B" for IEC-320-C8, or "C" for IEC-320-C6.
- (2) Avg. Efficiency: Averages the efficiency at 25, 50, 75, and 100% of max. rated output current.
- (3) Optional output connectors available.
Standard Output Cable: 5~13V: UL1571, 16AWG, 1M
13~21V: UL2468, 18AWG, 6FT
21~58V: UL2468, 20AWG, 6FT
Please call factory for order details.
- (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



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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