A Type: IEC-320-C14

B Type: IEC-320-C8

C Type: IEC-320-C6

D Type: US Cord

E Type: EU Cord

Size: 3.54~3.94in x 2.3in x 1.29in (90~100mm x 58.5mm x 32.8mm)

OPTIONS

- AC Inlet
- Output Connector
- Output Voltage
- Main Cord Input
  -US Type
  -EU Type

FEATURES

- Universal Input Voltage Range of 100~240VAC
- Compact Package
- High Efficiency up to 84.50%
- Single Outputs
- All Models are Level VI Compliant
- Optional Output Connectors Available
- US or EU Main Cord Input Available
- IEC-320-C14, IEC-320-C8, or IEC-320-C6 Inlets Available
- Short Circuit, Over Voltage, and Over Current Protection
- UL60950-1; CSA C22.2, EN60905-1, and IEC60950-1 Safety Approvals.

DESCRIPTION

The DTGPSU15 series of AC DC desktop power supplies offers up to 15 watts of output power in a compact 3.94” x 2.3” x 1.29” package. This series consists of single output models with an input voltage range of 100~240VAC and output voltages ranging from 3~48VDC. Many options are available for this series: AC Inlet of IEC-320-C14, IEC-320-C8, or IEC-320-C6, output connectors, or either a US main cord input or EU main cord input. Each model is Energy Level VI compliant and has UL60950-1; CSA C22.2, EN60950-1 and IEC60950-1 safety approvals. Please call factory for ordering details.

MODEL SELECTION TABLE

Model Number(1)	Input Voltage Range	Output Voltage Range	Output Current		Max. Output Power	Ripple & Noise	No Load Power Consumption	Measured at Output	Avg. Efficiency(2)	
			Min Load	Max Load					DoE (VI)	CoC (5)
DTGPSU15x-1	100~240VAC	5~6VDC	2.00A	2.40A	12W	50mV	<0.3W	5VDC	79.94%	80.3%
DTGPSU15x-1-1		6~8VDC	1.50A	2.00A	12W	80mV		7.5VDC	82.96%	83.26%
DTGPSU15x-2		8~11VDC	1.36A	1.80A	15W	80mV		9VDC	84.13%	84.50%
DTGPSU15x-3		11~13VDC	1.15A	1.36A	15W	80mV		12VDC	84.13%	84.50%
DTGPSU15x-4		13~16VDC	0.94A	1.15A	15W	100mV		15VDC	84.13%	84.50%
DTGPSU15x-5		16~21VDC	0.72A	0.94A	15W	120mV		18VDC	84.13%	84.50%
DTGPSU15x-6		21~27VDC	0.55A	0.72A	15W	150mV		24VDC	84.13%	84.50%
DTGPUS15x-7		27~33VDC	0.45A	0.55A	15W	240mV		28VDC	84.13%	84.50%
DTGPSU15x-8		33~48VDC	0.31A	0.45A	15W	240mV		48VDC	84.13%	84.50%

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			50		60	Hz
Input Current					0.5	A
Leakage Current	@240VAC/50Hz				0.25	mA
Inrush Current	@115VAC at 25ºC Cold Start			40		A
	@230VAC at 25ºC Cold Start			60		
OUTPUT SPECIFICATIONS						
Output Voltage			See Table			
Line Regulation	For any input voltage change between input voltage range	3.3V Models			±1	%
		All Other Models			±0.5	
Load Regulation	Variations from minimum to maximum output current	3.3V Models		±6		%
		5V, 7.5V, and 9V Models		±5		
		12V, 15V, and 18V Models		±3		
		24V, 28V, 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			3000		mS
Hold Up Time	@Full Load			16		mS
Rise Time	@Full Load			50		mS
Temperature Coefficient	All Output				±0.04	%/ºC
PROTECTION						
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					
ENVIRONMENTAL SPECIFICATIONS						
Operating Temperature			0		40	ºC
Storage Temperature			-40		85	ºC
Relative Humidity	Non-Condensing		5		95	%
Derating	Derated from 100% at 40ºC linearly to 70% at 50ºC					
MTBF	@Full Load at 25ºC ambient		100,000			hours
GENERAL SPECIFICATIONS						
Efficiency			See Table			
Insulation Resistance	From Input to Output		50			MΩ
Withstand Voltage	From Input to Output			4242		VDC
PHYSICAL SPECIFICATIONS						
Weight			3.53~8.82oz (100~250g)			
Dimensions (L x W x H)	A, B, and C Types		3.94in x 2.3in x 1.29in (100mm x 58.5mm x 32.8mm)			
	D and E Types		3.54 x 2.3in x 1.29in (90mm x 58.5mm x 32.8mm)			
SAFETY & EMC CHARACTERISTICS						
Safety Approvals	UL60950-1[4]; CSA C22.2 EN60950-1 IEC60950-1					
EMC	CE: Emission: EN55022; EN61000-3-2,3/Immunity: IEC61000-4-2,3,4,5,6,11 FCC 47 CFR Part 15 Subpart B					

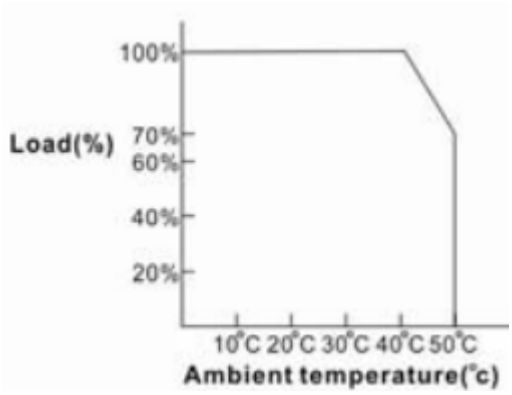
NOTES

(1) "x" In model number indicates AC Inlet Type. "x" can either be "A" for IEC-320-C14 inlet, "B" for IEC-320-C8, or "C" for IEC-320-C6, "D" for USA plug type, or "E" for EU plug type.
(2) Avg. Efficiency: Averages the efficiency at 25, 50, 75, and 100% of max. rated output current.
(3) Standard Output Cables: 5~13V: UL1185, 18AWG, 4FT
13~48V: UL1185, 20AWG, 6FT
Other output cables available. Please call factory for details.
(4) This product is Listed to applicable standards and requirements by UL.

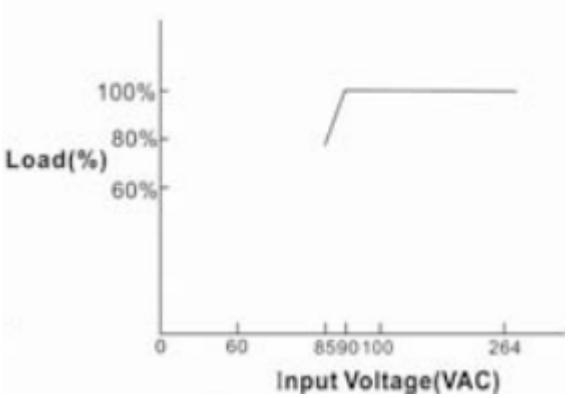
**Due to advances in technology, specifications subject to change without notice.*

DERATING CURVES

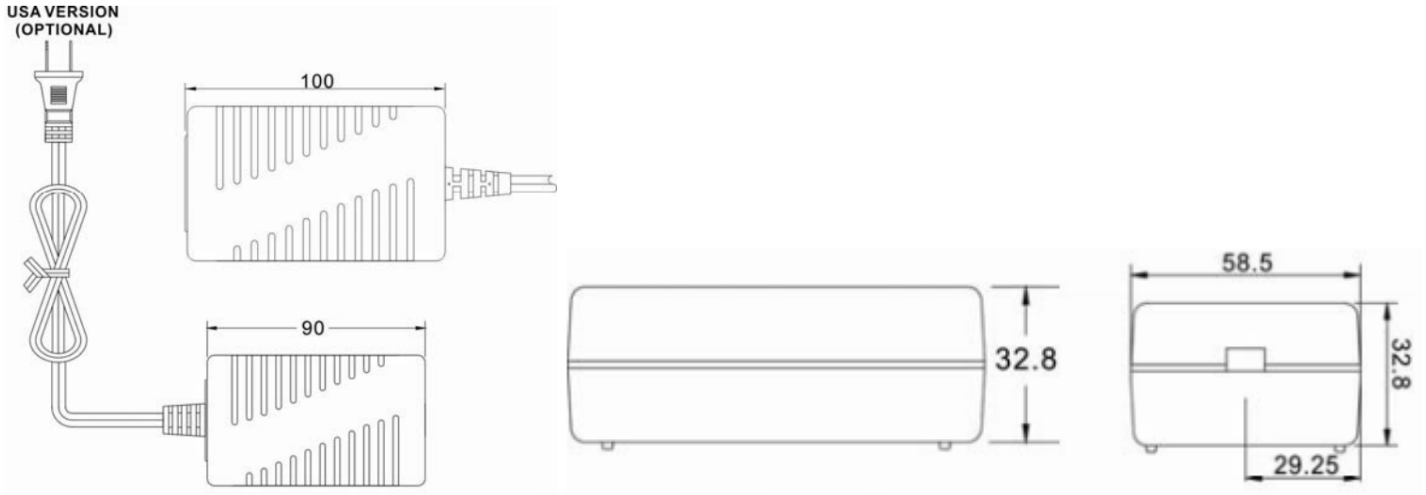
Temperature Derating

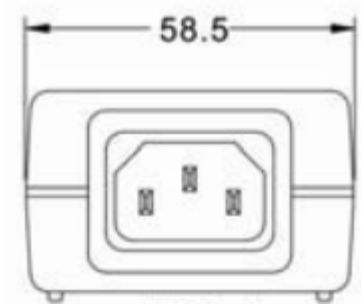


Typical Static Characteristics

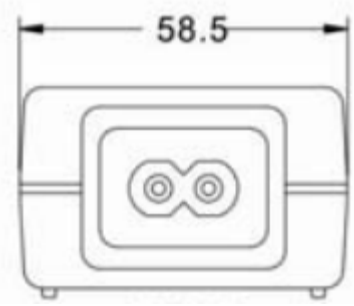


MECHANICAL DRAWINGS

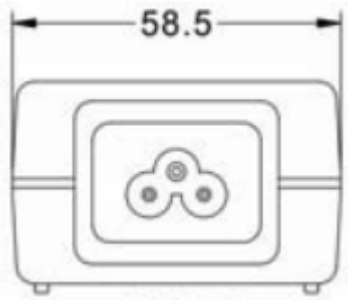




IEC-320-C14



IEC-320-C8



IEC-320-C6

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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