Size: 3.94in x 2.20in x 1.30in (100mm x 56mm x 33mm)

FEATURES

- Universal Input Voltage
- Single Output
- Optional Output Connectors Available
- IEC-320-C14, IEC-320-C8, or IEC-320-C6 Optional Input Inlets
- Over Voltage, Over Current, and Short Circuit Protection
- Meets EISA 2007/DoE (VI) & EU ErP/CoC (5) Approvals
- UL60905-1; CSA C22.2 and EN60905-1 Safety Approvals

DESCRIPTION

The DTA2-50 series of AC/DC desktop power supplies offers up to 50 watts of output power in a 3.94” x 2.20” x 1.30” package. This series consists of single output models with a universal input voltage range of 100~240VAC. Each model in this series has optional input inlets as well as over voltage, over current, and short circuit and each model is DoE(VI) and CoC (5) complaint. This series has UL60905-1; CSA C22.2 and EN6095-1 safety approvals.

MODEL SELECTION TABLE

Model Number[1]	Input Voltage Range	Output Voltage	Output Current	Ripple Max.	No Load Power Consumption	Output Power	Efficiency[2]	
							DoE (VI)	CoC (5)
DTA2-50S12X	100~240VAC	12VDC	4.16A	250mV	<0.15W	50W	>88%	>89%
DTA2-50S125X		12.5VDC	4.00A	250mV	<0.15W	50W	>88%	>89%
DTA2-50S13X		13VDC	3.84A	250mV	<0.15W	50W	>88%	>89%
DTA2-50S135X		13.5VDC	3.70A	250mV	<0.15W	50W	>88%	>89%
DTA2-50S14X		14VDC	3.57A	250mV	<0.15W	50W	>88%	>89%
DTA2-50S145X		14.5VDC	3.44A	250mV	<0.15W	50W	>88%	>89%
DTA2-50S15X		15VDC	3.33A	250mV	<0.15W	50W	>88%	>89%
DTA2-50S155X		15.5VDC	3.22A	250mV	<0.15W	50W	>88%	>89%
DTA2-50S16X		16VDC	3.12A	250mV	<0.15W	50W	>88%	>89%
DTA2-50S165X		16.5VDC	3.03A	250mV	<0.15W	50W	>88%	>89%
DTA2-50S17X		17VDC	2.94A	250mV	<0.15W	50W	>88%	>89%
DTA2-50S18X		18VDC	2.77A	250mV	<0.15W	50W	>88%	>89%
DTA2-50S185X		18.5VDC	2.70A	250mV	<0.15W	50W	>88%	>89%
DTA2-50S19X		19VDC	2.63A	250mV	<0.15W	50W	>88%	>89%
DTA2-50S195X		19.5VDC	2.56A	250mV	<0.15W	50W	>88%	>89%
DTA2-50S20X		20VDC	2.50A	250mV	<0.15W	50W	>88%	>89%
DTA2-50S205X		20.5VDC	2.43A	250mV	<0.15W	50W	>88%	>89%
DTA2-50S21X		21VDC	2.38A	250mV	<0.15W	50W	>88%	>89%
DTA2-50S215X		21.5VDC	2.32A	250mV	<0.15W	50W	>88%	>89%
DTA2-50S22X		22VDC	2.27A	250mV	<0.15W	50W	>88%	>89%
DTA2-50S225X		22.5VDC	2.22A	250mV	<0.15W	50W	>88%	>89%
DTA2-50S23X		23VDC	2.17A	250mV	<0.15W	50W	>88%	>89%
DTA2-50S235X		23.5VDC	2.12A	250mV	<0.15W	50W	>88%	>89%
DTA2-50S24X		24VDC	2.08A	250mV	<0.15W	50W	>88%	>89%

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				1.5	A
Inrush Current	@230VAC at 25ºC Cold Start		100		A
Leakage	Class I @240VAC/50Hz		3.5		mA
	Class II @240VAC/50Hz		0.25		
OUTPUT SPECIFICATIONS					
Output Voltage		See Table			
Line Regulation	For any input voltage change between input voltage range			±2	%
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 500usS after a 25% step load change				
Set Up Time	@Full Load		3000		mS
Hold Up Time	@Full Load		10		mS
Rise Time	@Full Load		50		mS
Temperature Coefficient	All Outputs			±0.04	%/ºC
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 Temperature		0		40	ºC
Storage Temperature		-40		85	ºC
Relative Humidity	Non Condensing	5		95	%
Derating	Derating from 100% at +40ºC linearly to 70% at 50ºC				
MTBF	@Full Load, 25ºC Ambient	40,000			Hours
GENERAL SPECIFICATIONS					
Efficiency		See Table			
Withstand Voltage	Input to Output		4242		VDC
Insulation Resistance	Input to Output	50			MΩ
PHYSICAL SPECIFICATIONS					
Weight		8.82oz (250g)			
Dimensions (L x W x H)		3.94in x 2.20in x 1.30in (100mm x 56mm x 33mm)			
SAFETY CHARACTERISTICS					
Safety Approvals	UL60950-1[5]; CSA C22.2 EN60950-1				
EMC	CE: Emission: EN55022 EN61000-3-2, 3/ Immunity : IEC61000-4-2, 3, 4, 5, 6, 11				Class

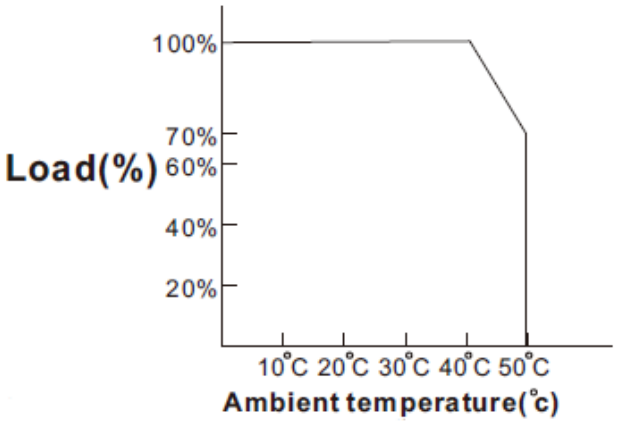
NOTES

1. "X" in model number indicates AC inlet. "X" can either be "A" for IEC-320-C14, "B" for IEC-320-C8, or "C" for IEC-320-C6.
2. Avg. efficiency at 25, 50, 75, and 100% of max. rated output current.
3. Standard Output Cable: 12~21V: UL2468, 16AWG, 1M
   21~24V: UL2468, 18AWG, 1M
4. Optional output connectors available.
5. This product is Listed to applicable standards and requirements by UL.

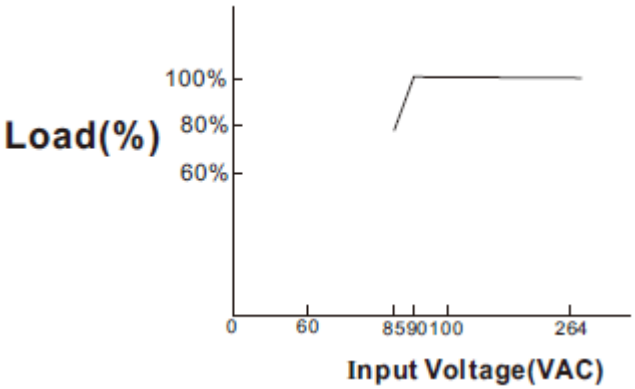
**Due to advances in technology, specifications subject to change without notice.*

DERATING CURVES

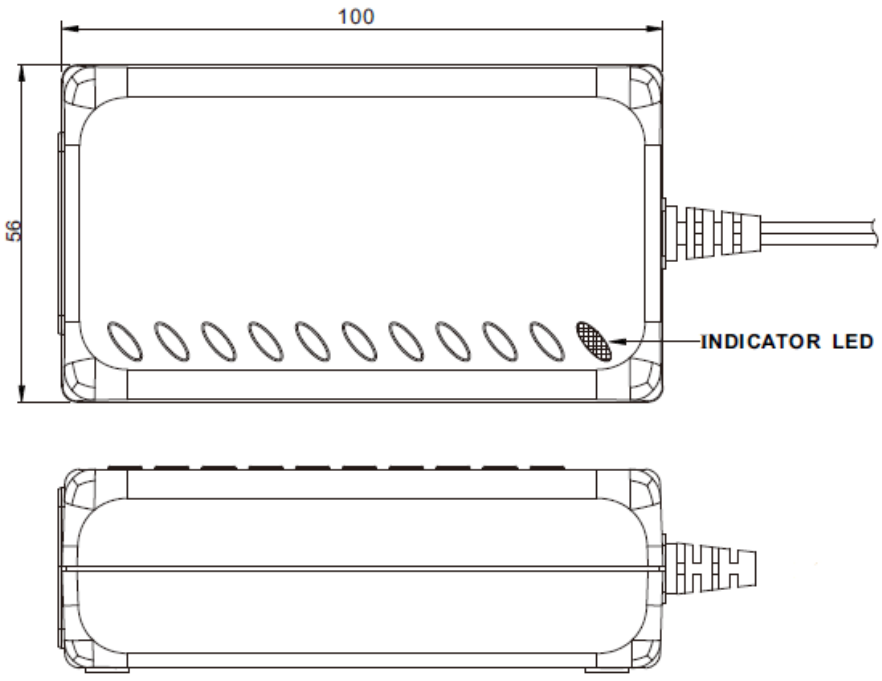
Derating

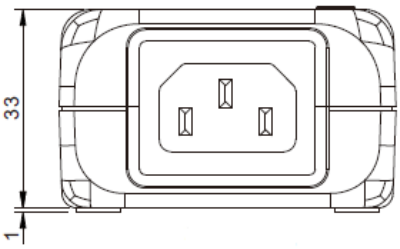


Typical Static Characteristics

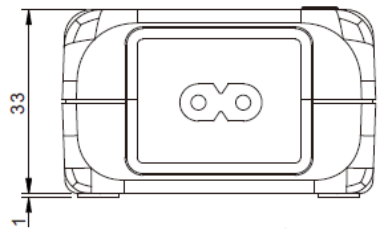


MECHANICAL DRAWINGS

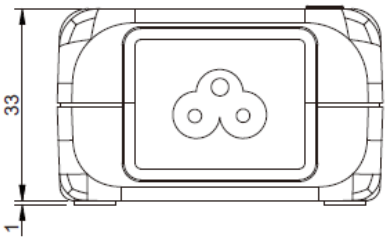




IEC-320-C14



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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