

IEC-320-C14



Size: 7.17in x 3.33in x 1.81in

IEC-320-C8



Size: 7.17in x 3.33in x 1.81in

IEC-320-C6



Size: 7.17in x 3.33in x 1.81in

IEC-320-C18



Size: 7.17in x 3.33in x 1.81in

OPTIONS

- AC Inlet
 - IEC-320-C14
 - IEC-320-C8
 - IEC-320-C6
 - IEC-320-C18
- Output Connectors

FEATURES

- RoHS Compliant
- Efficiency Meets CEC Level V, VI
- LED Indication
- Active PFC Function
- Single Outputs Ranging from 12VDC to 56VDC
- IEC-320-C14, IEC-320-C8, IEC-320-C6, & IEC-320-C18 AC Inlets Available
- Low Ripple & Noise
- UL/cUL, CB, CE, FCC, & CCC Safety Approvals
- 100~240VAC Input Voltage Range
- Over Voltage, Over Current, Over Temperature, and Short Circuit Protection
- MTBF: 30,000 Hours
- Optional Output Connectors Available

DESCRIPTION

The DTEA1250 series of AC/DC desktop power supplies provides up to 250 watts of continuous output power in a 7.17" x 3.33" x 1.81" package. All models have a single output and a wide input voltage range of 100~240VAC. This series is RoHS and WEEE compliant and meets CEC Level V, VI requirements. These supplies have active PFC, low ripple & noise, and short circuit, over voltage, over current, and over temperature protection. Four AC inlet connector types are available for this series: IEC-320-C14, IEC-320-C8, IEC-320-C6, and IEC-320-C18. Optional output connectors are also available, please call factory for ordering details.

MODEL SELECTION TABLE

Model Number ⁽¹⁾	Input Voltage Range	Output Voltage ⁽²⁾	Output Current		Load Regulation	Line Regulation	Ripple & Noise ⁽³⁾	Output Power
			Min Load	Max Load				
DTEA1250xA	100 ~ 240 VAC	12 ~ 18 VDC	0A	13.33A	±5%	±1%	300mVp-p	160W
DTEA1250xB		12 ~ 18 VDC	0A	15.00A	±5%	±1%	300mVp-p	180W
DTEA1250xC		19 ~ 28 VDC	0A	9.47A	±5%	±1%	350mVp-p	180W
DTEA1250xD		12 ~ 18 VDC	0A	16.66A	±5%	±1%	300mVp-p	200W
DTEA1250xE		19 ~ 28 VDC	0A	10.52A	±5%	±1%	350mVp-p	200W
DTEA1250xF		32 ~ 42 VDC	0A	6.25A	±5%	±1%	450mVp-p	200W
DTEA1250xG		44 ~ 56 VDC	0A	4.54A	±5%	±1%	600mVp-p	200W
DTEA1250xH		12 ~ 18 VDC	0A	18.33A	±5%	±1%	300mVp-p	220W
DTEA1250xJ		19 ~ 28 VDC	0A	11.57A	±5%	±1%	350mVp-p	220W
DTEA1250xK		32 ~ 42 VDC	0A	6.87A	±5%	±1%	450mVp-p	220W
DTEA1250xL		44 ~ 56 VDC	0A	5.00A	±5%	±1%	600mVp-p	220W
DTEA1250xM		19 ~ 28 VDC	0A	12.10A	±5%	±1%	350mVp-p	230W
DTEA1250xN		32 ~ 42 VDC	0A	7.18A	±5%	±1%	450mVp-p	230W
DTEA1250xP		44 ~ 56 VDC	0A	5.22A	±5%	±1%	600mVp-p	230W
DTEA1250xQ		19 ~ 28 VDC	0A	13.15A	±5%	±1%	350mVp-p	250W
DTEA1250xR		32 ~ 42 VDC	0A	7.81A	±5%	±1%	450mVp-p	250W
DTEA1250xS		44 ~ 56 VDC	0A	5.68A	±5%	±1%	600mVp-p	250W

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.

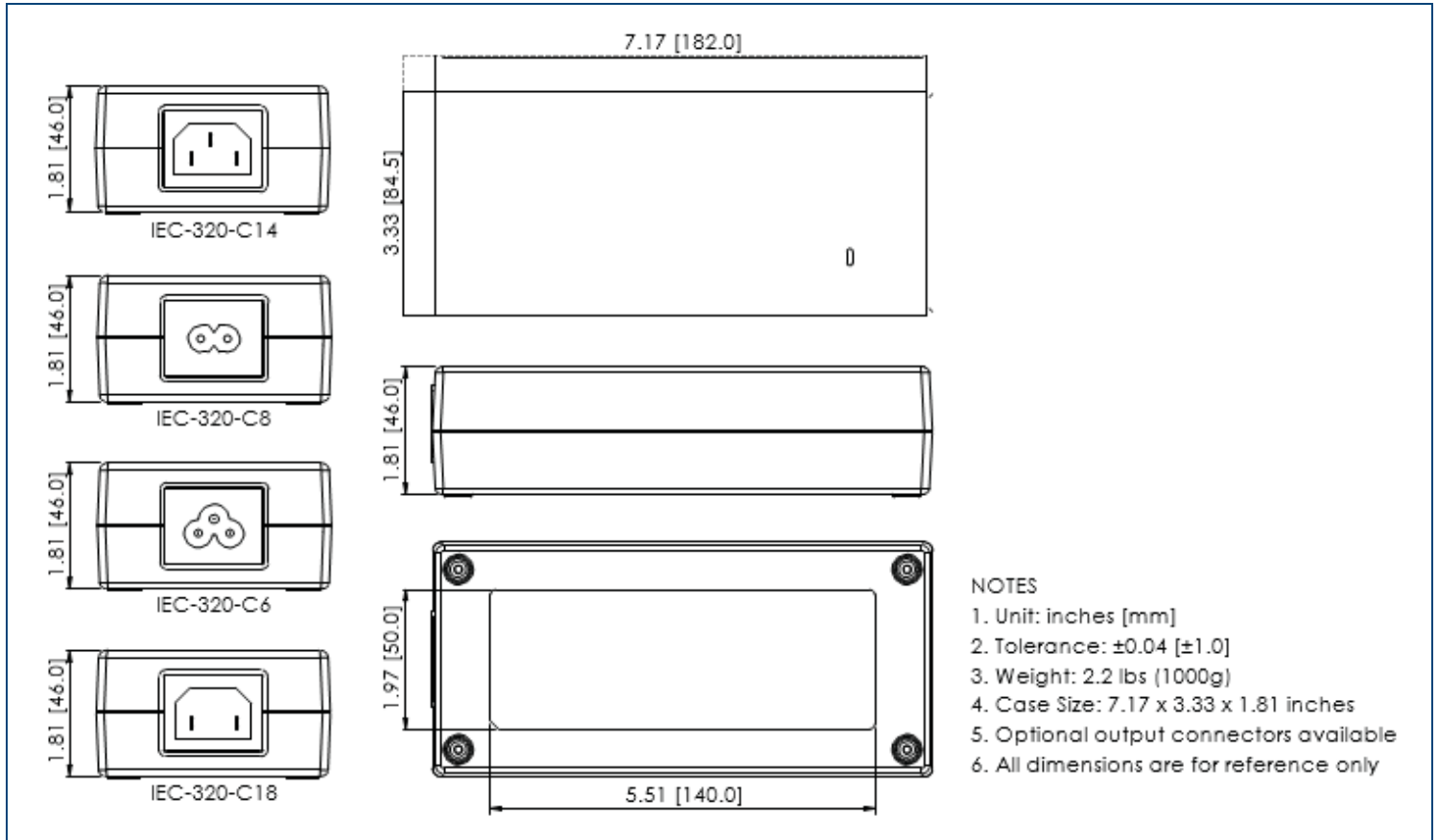
SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
INPUT SPECIFICATIONS					
Input Voltage Range	Rated Input Voltage Range	100	115/230	240	VAC
	Operating Input Voltage Range	90	115/230	264	
Input Frequency		47	50/60	63	Hz
Input Current	115VAC and Full Load			3.5	A
	230VAC and Full Load			2.5	
Inrush Current	220VAC, Full Load, Cold Start			100	A
Power Factor	100VAC and Full Load	0.95			
	240VAC and Full Load	0.9			
No Load Power Consumption				0.5	W
OUTPUT SPECIFICATIONS					
Output Voltage		See Table			
Line Regulation		-1		+1	%
Load Regulation		-5		+5	%
Output Power		See Table			
Output Current		See Table			
Minimum Load		0			mA
Ripple & Noise (20MHz bandwidth)	20MHz limited bandwidth	See Table			
Hold Up Time		8.3			mS
Turn On Time				3	S
Rise Time	115VAC Input and Full Load			70	ms
PROTECTION					
Short Circuit Protection		Automatic Recovery			
Over Current Protection		Automatic Recovery			
Over Voltage Protection		Automatic Recovery or Latch Off			
Over Temperature Protection		Latch Off			
ENVIRONMENTAL SPECIFICATIONS					
Operating Temperature		0		40	°C
Storage Temperature		-20		+85	°C
Operating Humidity		10		90	%
Storage Humidity		5		95	%
Cooling		Free Air Convection			
MTBF		30,000			hours
PHYSICAL SPECIFICATIONS					
Weight		2.2lbs (1000g)			
Dimensions (L x W x H)		7.17in x 3.33in x 1.81in (182.0mm x 84.5mm x 46.0mm)			
Enclosure Material		94V-1 Minimum			
AC Inlet Connector	Suffix "1"	IEC-320-C14			
	Suffix "2"	IEC-320-C8			
	Suffix "3"	IEC-320-C6			
	Suffix "6"	IEC-320-C18			
Output Connector		Contact Factory for Options			
SAFETY					
Compliance		RoHS, WEEE, CEC Level V, VI			
Safety Approvals		UL/cUL ⁽⁵⁾ , CB, CE, FCC, CCC			
EMI		CISPR22, EN55022 Class B			
ESD	EN61000-4-2	Air: ±8kV			
		Contact: ±4kV			
RS	EN61000-4-3	Frequency: 1KHz			
		Field Strength: 3V/m			
EFT	EN61000-4-4	1.0KV on AC Input Power Ports			
Surge	EN61000-4-5	Line to Line: ±1kV (peak)			
		Line to FG: ±2kV (peak)			

NOTES

- The "x" in the model number represents the type of AC inlet connector: "x" can be "1" for IEC-320-C14 type, "2" for IEC-320-C8 type, "3" for IEC-320-C6, or "6" for IEC-320-C18 type.
- The output voltage is specified as a range (Ex: 44~56 VDC); the customer must specify what they want the voltage set at.
- Ripple and Noise is measured at nominal line and full load with 20MHz bandwidth and a 0.1µF ceramic capacitor and 47µF aluminum capacitors in parallel across the output.
- Optional output connectors are available. Please call factory for ordering details.
- This product is Listed to applicable standards and requirements by UL.

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

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.

Contact **Wall Industries** for further information:

Phone: ☎ (603)778-2300
 Toll Free: ☎ (888)597-9255
 Fax: ☎ (603)778-9797
 E-mail: sales@wallindustries.com
 Web: www.wallindustries.com
 Address: 37 Industrial Drive
 Exeter, NH 03833

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