

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



Size: 3.86in x 1.77in x 1.22in (98mm x 45mm x 31mm)

FEATURES

- Wide Input Voltage Range of 100~240VAC
- RoHS Compliance
- Optional CEC Compliance
- Over Voltage and Short Circuit Protection
- UL/cUL, TUV, CB, CE, FCC, and CCC Safety Approvals

DESCRIPTION

The DTEA1030 series of AC/DC desktop power supplies offers up to 36 watts of output power in a 3.86" x 1.77" x 1.22" package. This series consists of single output models with a wide input voltage range of 100~240VAC. Each model in this series has RoHS compliance and optional CEC compliance as well as over voltage and short circuit protection. IEC-320-C14, IEC-320-C8, or IEC-320-C6 AC inlets are available. This series has UL/cUL, TUV, CB, CE, FCC and CCC safety approvals.

MODEL SELECTION TABLE

Model Number ⁽¹⁾	Input Voltage Range	Output Voltage	Output Current		Ripple & Noise	Output Power	Min. Efficiency
			Min Load	Max Load			
DTEA1020Ay	100~240	5~8V	0A	4A	160mV	20W	77%
DTEA1020y		9~12V	0A	2A	250mV	20W	77%
DTEA1020Cy		13~20V	0A	1.54A	300mV	20W	77%
DTEA1020Dy		21~35V	0A	0.95A	520mV	20W	77%
DTEA1030Ay		5~8V	0A	3.5A	160mV	25W	80%
DTEA1030y		9~12V	0A	3A	250mV	30W	80%
DTEA1030Cy		13~20V	0A	2.3A	300mV	30W	80%
DTEA1030Dy		21~35V	0A	1.42A	520mV	30W	80%
DTEA1036y		12V	0A	3A	250mV	36W	82%
DTEA1036Dy		21~35V	0A	1.5A	520mV	36W	82%

SPECIFICATIONS

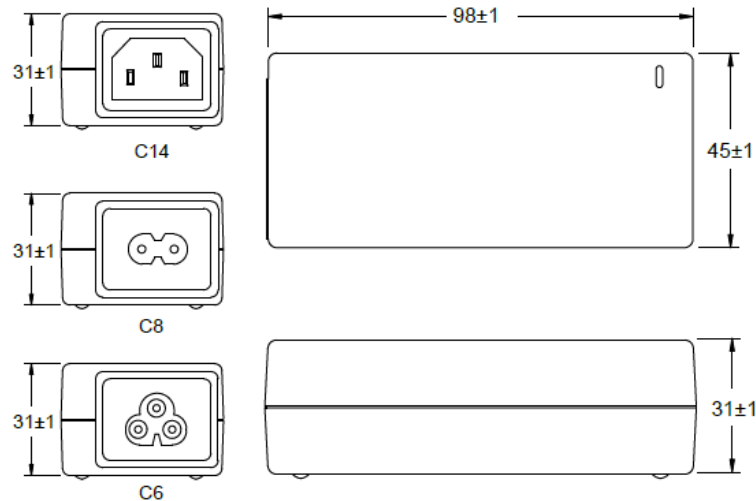
All specifications are based on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted.
We reserve the right to change specifications based on technological advances.

SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
INPUT SPECIFICATIONS					
Input Voltage Range		100		240	VAC
Input Frequency		50		60	Hz
Input Current			≤1.0		A
Inrush Current	At Cold Start		≤60		A
OUTPUT SPECIFICATIONS					
Output Voltage			See Table		
Line Regulation ⁽²⁾			±1		%
Load Regulation			±5		%
Output Power			See Table		
Output Current			See Table		
Minimum Load		0			A
Ripple & Noise ⁽³⁾			See Table		
Hold Up Time			≥8.3		mS
Turn On Time			≤3		S
PROTECTION					
Short Circuit Protection			Automatic Recovery		
Over Voltage Protection			Automatic Recovery		
ENVIRONMENTAL SPECIFICATIONS					
Operating Temperature		0		40	°C
Storage Temperature		-20		85	°C
Storage Humidity		5		95	%
MTBF		30,000			Hours
GENERAL SPECIFICATIONS					
Efficiency			See Table		
PHYSICAL SPECIFICATIONS					
Weight			7.76oz (220g)		
Dimensions (L x W x H)		3.86in x 1.77in x 1.22in (98mm x 45mm x 31mm)			
AC Inlet		C14, C8, C6			
SAFETY CHARACTERISTICS					
Safety Approvals		UL/cUL, TUV, CB, CE, FCC, CCC			

NOTES

1. "Y" in model name indicates AC Inlet type. "Y" can be "1" for IEC-320-C14, "2" for IEC-320-C8, or "3" for IEC-320-C6.
2. Line regulation is defined by changing $\pm 10\%$ of input voltage from nominal line at rated load.
3. Ripple & Noise is measured by using 20MHz bandwidth limited oscilloscope and terminated each output with a 0.1uF ceramic capacitor & parallel with 47uF aluminum capacitor at full load and nominal line.

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

MECHANICAL DRAWINGS

- Case Size: 98L x 45W x 31H (mm)
- AC Inlet: C14, C8, C6
- Weight: 220g

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 ISO9001-2008 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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