



Size: 7.78in x 4.02in x 2.01in(197.7mm x 102mm x 51mm)

FEATURES

- Input Voltage Range of 100~240VAC
- Active PFC Function
- LED Indication
- RoHS Compliance
- C14, C8, C6, or C18 AC Inlets
- Meets CEC Level V, VI (DoE)
- Over Voltage, Over Current, Over Temperature, and Short Circuit Protection
- UL/cUL, UL60601, CB 60601, CE, and FCC Safety Approvals

DESCRIPTION

The DTEM1300 series of AC/DC medical desktop power supplies offers up to 310 watts of output power in a 7.78" x 4.02" x 2.01" package. This series consists of single output models with a wide input voltage range of 100~240VAC and active PFC function. Four AC inlets are available for this series: C14, C8, C6, or C18 as well as over voltage, over current, over temperature, and short circuit protection. This series has UL/cUL, UL60601, CB 60601, CE, and FCC safety approvals.

MODEL SELECTION TABLE

Model Number ⁽¹⁾	Input Voltage Range	Output Voltage	Output Current		Ripple & Noise ⁽²⁾	Output Power
			Min Load	Max Load		
DTEM1300Ax	100~240VAC	12~18V	0A	13.33A	240mV	230W
DTEM1300Bx		12~18V	0A	20.00A	240mV	240W
DTEM1300Cx		12~18V	0A	20.85A	240mV	250.2W
DTEM1300Dx		19~28V	0A	13.68A	360mV	260W
DTEM1300Ex		19~28V	0A	14.21A	360mV	270W
DTEM1300Fx		32~42V	0A	8.43A	630mV	270W
DTEM1300Gx		44~56V	0A	6.13A	840mV	270W
DTEM1300Hx		19~28V	0A	14.73A	360mV	280W
DTEM1300Mx		19~28V	0A	15.26A	360mV	290W
DTEM1300Nx		19~28V	0A	15.78A	360mV	300W
DTEM1300Px		32~42V	0A	9.68A	630mV	310W
DTEM1300Qx		44~56V	0A	7.04A	840mV	310W

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	VDC
Input Frequency		50		60	Hz
Input Current		5		2.5	A
Inrush Current	@Cold Start		≤150		A
OUTPUT SPECIFICATIONS					
Output Voltage		See Table			
Line Regulation ⁽³⁾			±1		%
Load Regulation			±5		%
Output Power		See Table			
Output Current		See Table			
Ripple & Noise ⁽²⁾		See Table			
Hold Up Time		8.3			mS
Turn On Time			≤3		S
PROTECTION					
Short Circuit Protection		Automatic Recovery			
Over Current Protection		Automatic Recovery			
Over Voltage Protection		Latch Mode			
Over Temperature Protection		Latch Mode			
ENVIRONMENTAL SPECIFICATIONS					
Operating Temperature		0		40	°C
Storage Temperature		-20		85	°C
Storage Humidity		5		95	%
MTBF		50,000			Hours

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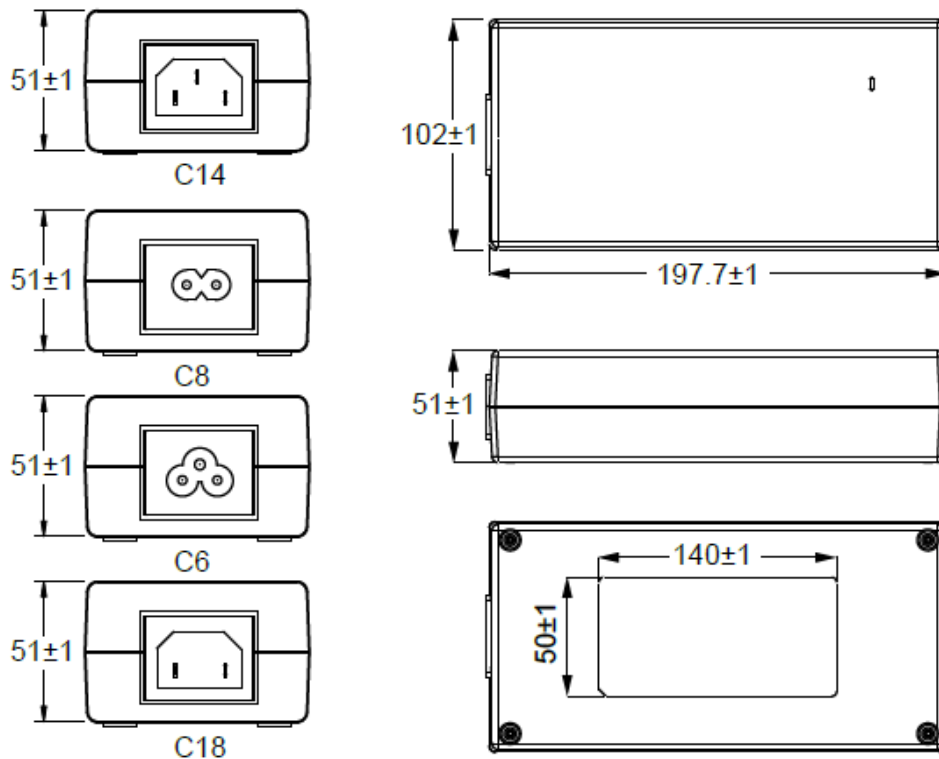
SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
GENERAL SPECIFICATIONS					
Efficiency		Meets CEC Level V, VI (DoE)			
PHYSICAL SPECIFICATIONS					
Weight		2.98lbs (1350g)			
Dimensions (L x W x H)		7.78in x 4.02in x 2.01in (197.7mm x 102mm x 51mm)			
AC Inlet		C14, C8, C6, C18			
SAFETY CHARACTERISTICS					
Safety Approvals	UL/cUL, UL60601 ⁽⁴⁾ , CB 60601, CE, FCC				

NOTES

1. "X" in model number represents optional AC Inlet. "X" can either be "1" for C14, "2" for C8, "3" for C6, or "4" for C18.
2. 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.
3. Line regulation is defined by changing $\pm 10\%$ of input voltage from nominal line at rated load.
4. This product is Listed to applicable standards and requirements by UL.

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

MECHANICAL DRAWINGS



- Case Size: 197.7L x 102W x 51H (mm)
- AC inlet: C14, C8, C6, C18
- Weight: 1350g

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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