

Wall Industries, Inc.

DTEM1060 SERIES

100~240VAC Input Voltage Range
C14 and C8 AC Inlet Connector Types
42~55 Watts, Single Outputs
3rd Edition Medical Safety Approvals
Medical AC/DC Desktop Power Supplies



IEC-320-C14



IEC-320-C8



FEATURES

- Single Outputs
- CEC/Energy Star Level V Compliant
- RoHS & WEEE Compliant
- Short Circuit and Over Voltage Protection
- MTBF: > 30,000 Hours
- 100~240VAC Input Voltage Range
- C14, and C8 AC Inlet Connectors Available
- Optional Output Connectors Available
- UL/cUL UL60601-1 (3rd Edition), TUV/RH EN/IEC 60601-1 (3rd Edition), CB, CE, and FCC Safety Approvals

DESCRIPTION

The DTEM1060 series of medical AC/DC desktop power supplies provides up to 55 Watts of continuous output power in a 4.72" x 2.36" x 1.37" package. This series consists of single output models with a wide input voltage range of 100~240VAC. These models are protected against over voltage and short circuit conditions and are RoHS, WEEE, and CEC/Energy Star Level V compliant. This series also has UL/cUL UL60601-1 (3rd edition), TUV/RH EN/IEC 60601-1 (3rd edition), CB, CE, and FCC safety approvals. The DTEM1060 series has two AC inlet connector types available: IEC-320-C14 and IEC-320-C8. Please call factory for ordering details.

SPECIFICATIONS: DTEM1060 SERIES					
<p style="color: red;">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.</p>					
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				80	A
OUTPUT SPECIFICATIONS					
Output Voltage (<i>See Note 2</i>)		See Table			
Line Regulation	defined by changing $\pm 10\%$ of input voltage from nominal line and rated load.	-1		+1	%
Load Regulation		-5		+5	%
Output Current		See Table			
Minimum Load		0			A
Output Power		See Table			
Ripple & Noise		See Table			
Hold-up Time		8.3			ms
Turn-on Time				3	s
PROTECTION					
Over Voltage Protection		Automatic recovery			
Short Circuit Protection		Automatic recovery			
GENERAL SPECIFICATIONS					
Efficiency (typical)			85		%
ENVIRONMENTAL SPECIFICATIONS					
Operating Temperature		0		40	°C
Storage Temperature		-20		85	°C
Storage Humidity		5		95	%
MTBF		30,000			hours
PHYSICAL SPECIFICATIONS					
Dimensions (L x W x H)		4.72 x 2.36 x 1.37 inches (120 x 60 x 34.8 mm)			
AC Inlet Connector (<i>See Note 1</i>)		IEC-320-C14 and IEC-320-C8			
Weight		9.88oz (280g)			
SAFETY & COMPLIANCE					
Safety Standards	UL/CUL UL60601-1 (3 rd ed.), TUV/RH EN/IEC 60601-1 (3 rd ed.), CB, CE, FCC				
Compliance	RoHS, WEEE, CEC/Energy Star Level V				

MODEL SELECTION TABLE

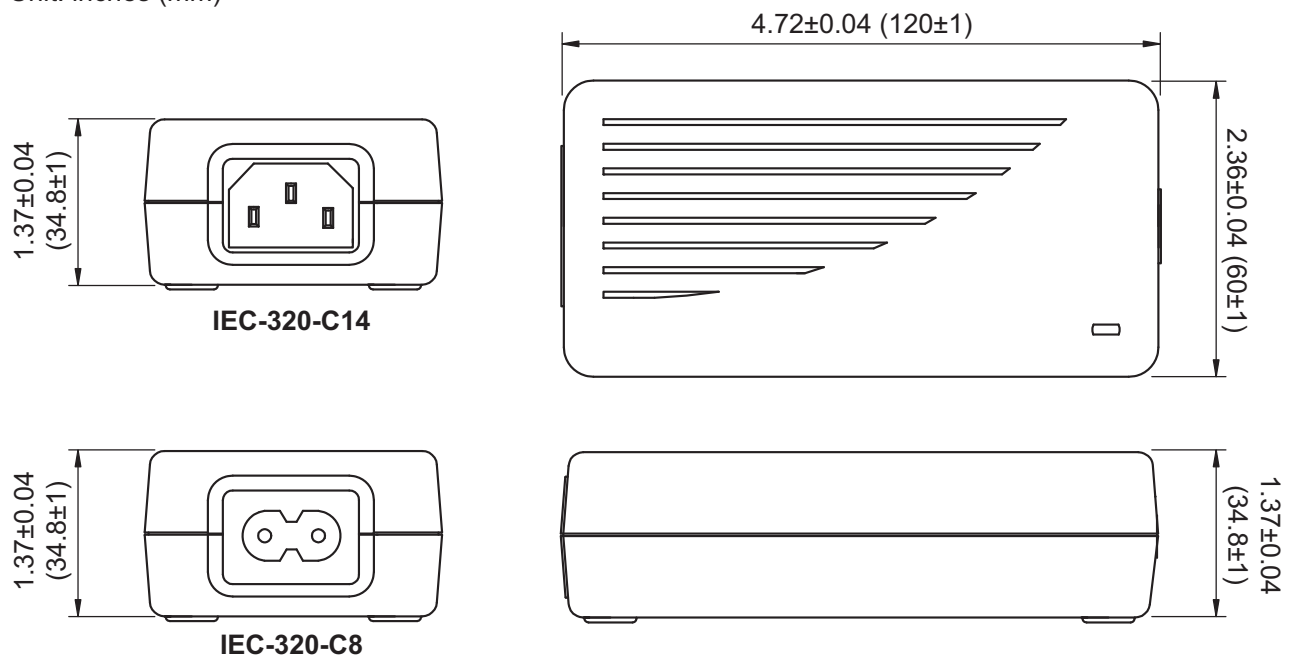
Model Number (1)	Input Voltage Range	Output Voltage (2)	Output Current		Ripple & Noise (3)	Maximum Output Power	AC Inlet Type
			Min	Max			
DTEM1060 1 A	100 ~ 240 VAC	13 ~ 17 VDC	0A	4.2A	250mVp-p	55W	IEC-320-C14
DTEM1060 1 B		18 ~ 24 VDC	0A	3A	350mVp-p	55W	
DTEM1060 1 C		12 ~ 17 VDC	0A	4.2A	250mVp-p	50W	
DTEM1060 1 D		18 ~ 24 VDC	0A	2.8A	350mVp-p	50W	
DTEM1060 1 E		12 ~ 17 VDC	0A	3.5A	250mVp-p	42W	
DTEM1060 1 F		18 ~ 24 VDC	0A	2.3A	350mVp-p	42W	
DTEM1060 2 A	100 ~ 240 VAC	13 ~ 17 VDC	0A	4.2A	250mVp-p	55W	IEC-320-C8
DTEM1060 2 B		18 ~ 24 VDC	0A	3A	350mVp-p	55W	
DTEM1060 2 C		12 ~ 17 VDC	0A	4.2A	250mVp-p	50W	
DTEM1060 2 D		18 ~ 24 VDC	0A	2.8A	350mVp-p	50W	
DTEM1060 2 E		12 ~ 17 VDC	0A	3.5A	250mVp-p	42W	
DTEM1060 2 F		18 ~ 24 VDC	0A	2.3A	350mVp-p	42W	

NOTES

1. The number in **red** represents the type of AC inlet connector: “**1**” for IEC-320-C14 type and “**2**” for IEC-320-C8 type.
2. The output voltage is specified as a range (Ex: 18~24VDC); the customer must specify what they want the voltage set at.
3. Ripple and Noise is measured at nominal line and full load with 20MHz limited bandwidth and a 0.1µF ceramic and 47µF aluminum capacitors in parallel on the output.
4. Optional output connectors are available. Please call factory for ordering details.

MECHANICAL DRAWING

Unit: inches (mm)



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.

Contact **Wall Industries** for further information:

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