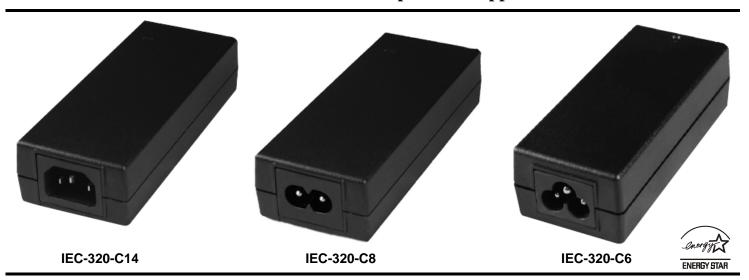


DATASHEET Rev. C

# **DTEM1070 SERIES**

100~240VAC Input Voltage Range 60~72 Watts, Single Outputs IEC-320-C14, C8, and C6 AC Inlet Types AC/DC Medical Desktop Power Supplies



# **FEATURES**

- Single Outputs
- CEC / Energy Star Level V Compliant
- RoHS Compliant
- Short Circuit and Over Voltage Protection
- MTBF: > 30,000 Hours
- Dimensions: 5.20" x 2.13" x 1.22"

- 100~240VAC Input Voltage Range
- IEC-320-C14, IEC-320-C8, and IEC-320-C6 AC Inlet Connectors Available
- UL/cUL 60601-1 (3<sup>rd</sup> edition), TUV/RH EN/IEC 60601-1, CB, CE, and FCC Safety Approvals
- Optional Output Connectors Available

# DESCRIPTION

The DTEM1070 series of AC/DC medical desktop power supplies provides up to 72 Watts of continuous output power. All models have a single output and a wide input voltage range of 100~240VAC. All models are protected against over voltage and short circuit conditions. This series is RoHS and CEC/Energy Star Level V compliant and has UL/cUL 60601-1 (3<sup>rd</sup> edition), TUV/RH EN/IEC 60601-1, CB, CE, and FCC safety approvals. This series also has three AC inlet connector types available: IEC-320-C14, IEC-320-C8, and IEC-320-C6. Optional output connectors are also available. Please call factory for ordering details.



<b>SPECIFICATIONS:</b> <i>DTEM107</i>	0 Series						
	5°C, Nominal Input Voltage, and Maximum Outp			therwise 1	noted.		
SPECIFICATION	e right to change specifications based on technolo TEST CONDITIONS	Min	Typ	Max	Unit		
INPUT SPECIFICATIONS	TEST CONDITIONS	WIII	Тур	WIAX	Omt		
Input Voltage Range		100		240	VAC		
Input Frequency		50		60	Hz		
Input Current				2	A		
Inrush Current				90	A		
OUTPUT SPECIFICATIONS					1		
Output Current		See Table					
Output Voltage ( <i>See Note 2</i> )		See Table					
Line Regulation	Line regulation is defined by changing $\pm 10\%$ of input voltage from nominal line and rated load.	-1		+1	%		
Load Regulation		-5		+5	%		
Output Power		See Table					
Ripple & Noise	Measured at nominal line and full load with 20MHz limited bandwidth and 0.1µF ceramic and 47µF aluminum capacitors in parallel on the output.		250		mVp-p		
Hold-up Time		8.3			ms		
Turn-on Time				3	S		
PROTECTION							
Over Voltage Protection		Latch off					
Short Circuit Protection		Automatic recovery					
GENERAL SPECIFICATIONS				-			
Efficiency (typical)			85		%		
ENVIRONMENTAL SPECIFICA	TIONS		1				
Operating Temperature		0		40	°C		
Storage Temperature		-20		85	°C		
Storage Humidity		5		95	%		
MTBF			> 30,00	0 hours			
PHYSICAL SPECIFICATIONS							
Dimensions (L x W x H)	5.20 x 2.13 x 1.22 inches (132 x 54 x 31 mm)						
AC Inlet Connector (See Note 1)	IEC-320-C14, IEC-320-C8, IEC-320-C6						
Weight			11.3oz	(320g)			
SAFETY & COMPLIANCE							
Safety Standards		UL/cUL 60601-1 (3 <sup>rd</sup> edition), TUV/RH EN/IEC 60601-1, FCC, CB, CE					
Compliance	RoHS, WEEE, CEC/Energy Star Level V						



MODEL SELECTION TABLE							
Model Number <sup>(1)</sup> Input Voltage Range	Input Voltage	Output Voltage <sup>(2)</sup>	Output Current		Ripple & Noise <sup>(3)</sup>	Maximum	AC Inlet Type
	Range		Min	Max	Ripple & Noise	Output Power	AC Infet Type
DTEM1070 <mark>1</mark> A		12 ~ 17 VDC	0A	6A	250mVp-p	72W	
DTEM10701B	100 ~ 240 VAC	18 ~ 24 VDC	0A	4A	250mVp-p	72W	IEC-320-C14
DTEM1070 <mark>1</mark> C	100 ~ 240 VAC	12 ~ 17 VDC	0A	5A	250mVp-p	60W	IEC-520-C14
DTEM1070 <mark>1</mark> D		18 ~ 24 VDC	0A	3.33A	250mVp-p	60W	
DTEM10702A		12 ~ 17 VDC	0A	6A	250mVp-p	72W	
DTEM10702B	100 ~ 240 VAC	18 ~ 24 VDC	0A	4A	250mVp-p	72W	IEC-320-C8
DTEM10702C	100 ~ 240 VAC	12 ~ 17 VDC	0A	5A	250mVp-p	60W	IEC-520-Co
DTEM10702D		18 ~ 24 VDC	0A	3.33A	250mVp-p	60W	
DTEM10703A	100 ~ 240 VAC	12 ~ 17 VDC	0A	6A	250mVp-p	72W	
DTEM10703B		18 ~ 24 VDC	0A	4A	250mVp-p	72W	IEC-320-C6
DTEM1070 <mark>3</mark> C	100 ~ 240 VAC	12 ~ 17 VDC	0A	5A	250mVp-p	60W	IEC-520-C0
DTEM10703D		18 ~ 24 VDC	0A	3.33A	250mVp-p	60W	

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#### NOTES

1. The number in red represents the type of AC inlet: "1" is for IEC-320-C14 type, "2" is for IEC-320-C8 type, and "3" is for IEC-320-C6 type.

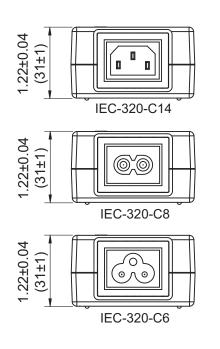
2. The output voltage is specified as a range (Ex: 18~24VDC); the customer must specify what they want the voltage set at.

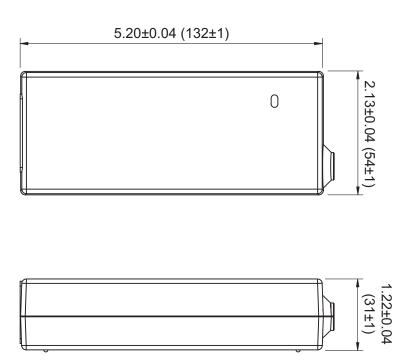
3. Ripple and Noise is measured at nominal line and full load with 20MHz limited bandwidth and a  $0.1\mu$ F ceramic and  $47\mu$ F aluminum capacitors in parallel on the output.

4. Optional output connectors are available. Please call factory for ordering details.

## MECHANICAL DRAWING

Unit: inches (mm)





All dimensions are for reference only

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## **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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