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# IEC-320-C8

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## **FEATURES**

- Single Outputs
- RoHS & WEEE Compliance
- Efficiency Meets CEC Level V, VI
- Short Circuit & Over Voltage Protection
- IEC-320-C14, IEC-320-C8, IEC-320-C6, & IEC-320-C18 100~240VAC Input Voltage Range AC Inlets Available
- UL/cUL 60601: 3rd Edition Medical Approvals
- TUV/SUD EN/IEC 606001 approvals for Class II
- MTBF > 30,000 Hours
- Optional Output Connectors Available
- · CB, CE, FCC approvals

#### DESCRIPTION

The DTEM1024 series of medical AC/DC desktop power supplies provides up to 36 Watts of continuous output power in a 3.94" x 1.77" x 1.22" 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. This series also has UL/cUL 60601 and TUV/SUD EN/IEC 60601 3rd edition (for class II) medical approvals. All models are protected against short circuit and over voltage conditions. 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 Min Max		Load Regulation	Line Regulation <sup>(3)</sup>	Ripple & Noise (4)	Output Power				
DTEM1024Ax	100 ~ 240 VAC	5 ~ 8 VDC	0A	2.0A	±5%	±1%	100mVp-p	16W				
DTEM1024Bx		5 ~ 8 VDC	0A	3.0A	±5%	±1%	100mVp-p	20W				
DTEM1024Cx		5 ~ 8 VDC	0A	4.0A	±5%	±1%	100mVp-p	24W				
DTEM1024Dx		9 ~ 11 VDC	0A	1.5A	±5%	±1%	250mVp-p	18W				
DTEM1024Ex		9 ~ 11 VDC	0A	2.0A	±5%	±1%	250mVp-p	24W				
DTEM1024Fx		9 ~ 11 VDC	0A	3.0A	±5%	±1%	250mVp-p	27W				
DTEM1024Gx		12 ~ 17 VDC	0A	1.66A	±5%	±1%	250mVp-p	20W				
DTEM1024Hx		12 ~ 17 VDC	0A	2.5A	±5%	±1%	250mVp-p	30W				
DTEM1024Jx		18 ~ 24 VDC	0A	1.33A	±5%	±1%	350mVp-p	24W				
DTEM1024Kx		18 ~ 24 VDC	0A	1.66A	±5%	±1%	350mVp-p	30W				
DTEM1024Mx		36 ~ 48 VDC	0A	0.55A	±5%	±1%	480mVp-p	20W				
DTEM1024Nx		36 ~ 48 VDC	0A	0.83A	±5%	±1%	480mVp-p	30W				
DTEM1024Px		12V	0A	3.0A	±5%	±1%	250mVp-p	36W				
DTEM1024Qx		12V	0A	2.0A	±5%	±1%	250mVp-p	24W				
DTEM1024Rx		24V	0A	1.5A	±5%	±1%	350mVp-p	36W				

## **NOTES**

- 1. 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.
- 2. The output voltage is specified as a range (Ex: 36~48 VDC); the customer must specify what they want the voltage set at.
- 3. Line regulation is defined by changing ±10% of input voltage from nominal line at rated load.
- 4. 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.
- 5. LED option available.
- 6. Optional output connectors are available. Please call factory for ordering details.



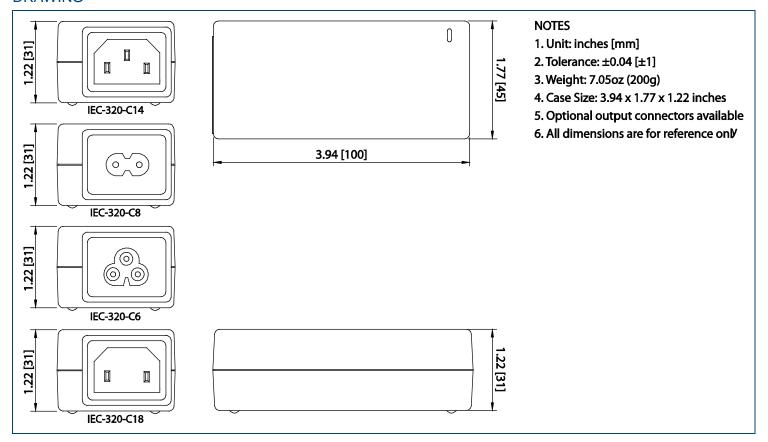
# TECHNICAL SPECIFICATIONS: DTEM1024 SERIES

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	Тур	Max	Unit				
INPUT SPECIFICATIONS									
Input Voltage		100		240	VAC				
Input Frequency		50		60	Hz				
Input Current		0.5		1	Α				
Inrush Current	Cold start			60	Α				
OUTPUT SPECIFICATIONS					l.				
Output Voltage		See Table							
Line Regulation	Defined by changing ±10% of input voltage from nominal line at rated load	-1		+1	%				
Load Regulation		-5		+5	%				
Output Power			See Table						
Output Current		See Table							
Minimum Load		0			Α				
Ripple & Noise (20MHz BW)	Measured at nominal line and full load with 0.1µF ceramic and 47µF aluminum capacitors in parallel				See Table				
Hold-up Time		8.3			ms				
Turn-on Time PROTECTION				3	S				
Over Voltage Protection			Automatic	recovery					
Short Circuit Protection	•				Automatic recovery  Automatic recovery				
GENERAL SPECIFICATIONS			Automati	recovery					
Efficiency		Meet CEC Level V, VI							
ENVIRONMENTAL SPECIFICATI	ONS		WIGGE GEG	20001 0, 0	<u>.                                      </u>				
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	1.00 a		hours				
PHYSICAL SPECIFICATIONS		00,000			110010				
Weight			7.05oz	(200g)					
Dimensions (L x W x H)					3.94 x 1.77 x 1.22 inches (100 x 45 x 31 mm)				
	Suffix "1"		IEC-320-C14						
AC Inlet Connector	Suffix "2"		IEC-320-C8						
AC met Connector	Suffix "3"		IEC-320-C6						
	Suffix "6"	20-C18							
Output Connectors	Call factory for ordering details	Several options available							
SAFETY & COMPLIANCE									
Safety Approvals For class II only			UL/cUL UL60601: 3rd edition TUV/SUD EN/IEC 60601-1: 3rd edition CB, CE, and FCC						
Compliance		RoH	S, WEEE,		V. VI				



# MECHANICAL DRAWING



# 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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