

IEC-320-C14



Size: 4.45 x 1.93 x 1.38 inches

IEC-320-C8



Size: 4.45 x 1.93 x 1.38 inches

IEC-320-C6



Size: 4.45 x 1.93 x 1.38 inches

IEC-320-C18



Size: 4.45 x 1.93 x 1.38 inches

FEATURES

- RoHS & WEEE Compliant
- Efficiency Meets CEC Level V, VI
- LED Indication
- Single Outputs Ranging from 5VDC to 56VDC
- IEC-320-C14, IEC-320-C8, IEC-320-C6, & IEC-320-C18 AC Inlets Available
- UL/cUL 60601-1: 3rd Edition Medical Approvals
- 100~240VAC Input Voltage Range
- Protection: OVP / OCP / SCP
- Optional Output Connectors Available
- TUV, CB, FCC, CE Approvals

DESCRIPTION

The DTEM1068 series of medical AC/DC desktop power supplies provides up to 72 Watts of continuous output power in a 4.45" x 1.93" x 1.38" 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 60601-1 3rd edition medical approvals. All models are protected against short circuit, over voltage, and over current 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		Load Regulation	Line Regulation ⁽³⁾	Ripple & Noise ⁽⁴⁾	Output Power
			Min	Max				
DTEM1068xA	100 ~ 240 VAC	5 ~ 9 VDC	0A	5.0A	±3%	±1%	100mVp-p	25W
DTEM1068xB		12 ~ 16 VDC	0A	3.33A	±3%	±1%	250mVp-p	40W
DTEM1068xC		18 ~ 24 VDC	0A	2.10A	±3%	±1%	350mVp-p	40W
DTEM1068xD		32 ~ 42 VDC	0A	1.25A	±3%	±1%	500mVp-p	40W
DTEM1068xE		44 ~ 56 VDC	0A	0.90A	±3%	±1%	720mVp-p	40W
DTEM1068xF		5 ~ 9 VDC	0A	6.0A	±3%	±1%	100mVp-p	30W
DTEM1068xG		12 ~ 16 VDC	0A	4.16A	±3%	±1%	250mVp-p	50W
DTEM1068xH		18 ~ 24 VDC	0A	2.63A	±3%	±1%	350mVp-p	50W
DTEM1068xJ		32 ~ 42 VDC	0A	1.56A	±3%	±1%	500mVp-p	50W
DTEM1068xK		44 ~ 56 VDC	0A	1.13A	±3%	±1%	720mVp-p	50W
DTEM1068xW		5 ~ 9 VDC	0A	8.0A	±3%	±1%	100mVp-p	40W
DTEM1068xM		5 ~ 9 VDC	0A	7.0A	±3%	±1%	100mVp-p	35W
DTEM1068xN		12 ~ 16 VDC	0A	5.0A	±3%	±1%	250mVp-p	60W
DTEM1068xP		18 ~ 24 VDC	0A	3.15A	±3%	±1%	350mVp-p	60W
DTEM1068xQ		32 ~ 42 VDC	0A	1.87A	±3%	±1%	500mVp-p	60W
DTEM1068xR		44 ~ 56 VDC	0A	1.36A	±3%	±1%	720mVp-p	60W
DTEM1068xY		12 ~ 16 VDC	0A	5.24A	±3%	±1%	250mVp-p	65W
DTEM1068xS		5 ~ 9 VDC	0A	9.0A	±3%	±1%	100mVp-p	45W
DTEM1068xU		12 ~ 16 VDC	0A	6.0A	±3%	±1%	250mVp-p	72W
DTEM1068xV		18 ~ 24 VDC	0A	3.78A	±3%	±1%	350mVp-p	72W
DTEM1068xL		32 ~ 42 VDC	0A	2.25A	±3%	±1%	500mVp-p	72W
DTEM1068xT		44 ~ 56 VDC	0A	1.63A	±3%	±1%	720mVp-p	72W

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: 44~56 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. Optional output connectors are available. Please call factory for ordering details.

TECHNICAL SPECIFICATIONS: DTEM1068 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.

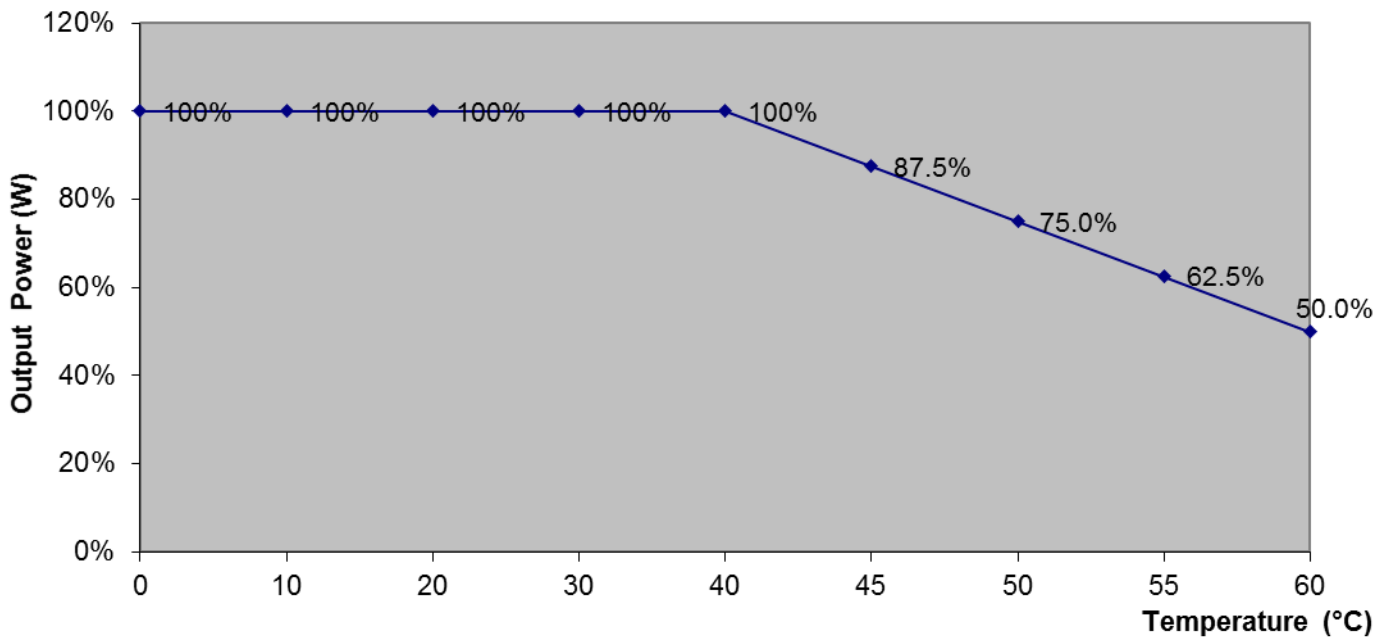
SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
INPUT SPECIFICATIONS					
Input Voltage		100		240	VAC
Input Frequency		50		60	Hz
Input Current				2	A
Inrush Current	At cold start			100	A
OUTPUT SPECIFICATIONS					
Output Voltage		See Table			
Line Regulation	Defined by changing $\pm 10\%$ of input voltage from nominal line at rated load	-1		+1	%
Load Regulation		-3		+3	%
Output Power		See Table			
Output Current		See Table			
Minimum Load		0			A
Ripple & Noise (20MHz BW)	Measured at nominal line and full load with 0.1 μ F ceramic and 47 μ F aluminum capacitors in parallel	See Table			
Hold-up Time		8.3			ms
Turn-on Time				3	s
PROTECTION					
Over Voltage Protection		Latch off			
Short Circuit Protection		Automatic recovery			
Over Current Protection		Automatic recovery			
GENERAL SPECIFICATIONS					
Efficiency		Meet CEC Level V, VI			
ENVIRONMENTAL SPECIFICATIONS					
Operating Temperature		0		+40	°C
Storage Temperature		-20		+85	°C
Storage Humidity		5		90	%
Cooling		Free air convection			
Case Temperature				+100	°C
MTBF	@115VAC (MIL-HDBK-217F)	148,503.94			hours
	@230VAC (MIL-HDBK-217F)	159,357.51			
PHYSICAL SPECIFICATIONS					
Weight		10.58oz (300g)			
Dimensions (L x W x H)		4.45 x 1.93 x 1.38 inches (113 x 49 x 35 mm)			
AC Inlet Connector	Suffix "1"	IEC-320-C14			
	Suffix "2"	IEC-320-C8			
	Suffix "3"	IEC-320-C6			
	Suffix "6"	IEC-320-C18			
Output Connectors	Call factory for ordering details	Several options available			
SAFETY & COMPLIANCE					
Safety Approvals		UL/cUL 60601-1: 3rd edition, TUV EN/IEC 60601-1: 3rd edition, CB, FCC, CE			
Compliance		RoHS, WEEE, CEC Level V, VI			

DERATING CURVE

Thermal Derating Curve

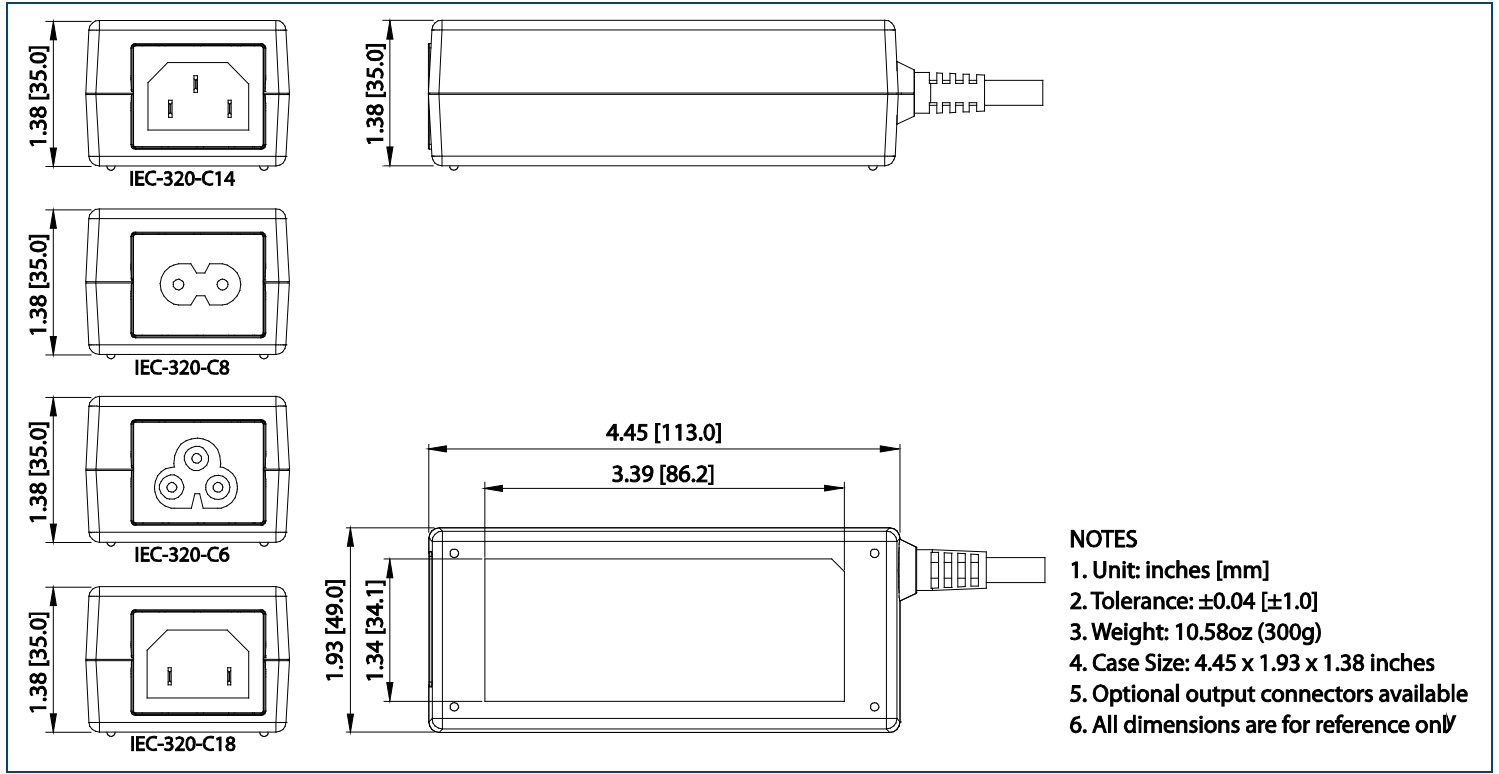
Test Condition:
Input Voltage: 90VAC/60Hz & 264VAC/50Hz
Load: Load Drop 2.5% when ambient rise 1°C

Test Instrument:
AC Source: AllPower-110N
Electronic Load: PRODIGIT 3310C
Temperature Recorder: Agilent 34970A
Chamber: Static Chamber (1)



Temperature (°C)	0	10	20	30	40	45	50	55	60
Output Power (W)	100%	100%	100%	100%	100%	87.5%	75.0%	62.5%	50.0%

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.

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