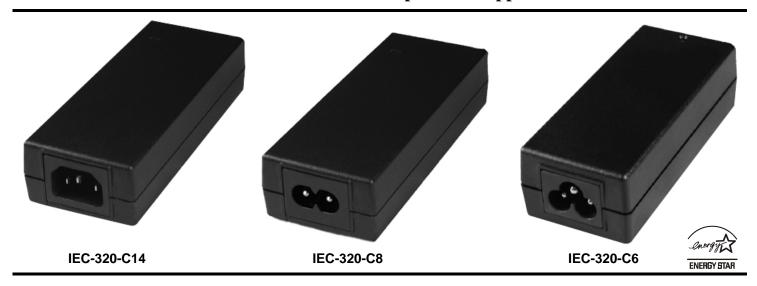


DTEM1070 SERIES

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 (3rd 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 (3rd 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.



SPECIFICATIONS: DTEM1070 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.

NPUT SPECIFICATIONS	We reserve the right to change specifications based on technological advances.											
Input Voltage Range	SPECIFICATION	TEST CONDITIONS	Min	Тур	Max	Unit						
Input Frequency	INPUT SPECIFICATIONS											
Input Current	Input Voltage Range		100		240	VAC						
Drush Current	Input Frequency		50		60	Hz						
OUTPUT SPECIFICATIONS Output Current See Table Output Voltage (See Note 2) See Table Line Regulation Line regulation is defined by changing ±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 cramic and 47µF aluminum capacitors in parallel on the output. 8.3 mvyp-p Hold-up Time 8.3 ms ms Turn-on Time 8.3 ms ms PROTECTION Over Voltage Protection Latch off Automatic recovery GENERAL SPECIFICATIONS Efficiency (typical) 85 % ENVIRONMENTAL SPECIFICATIONS Storage Temperature 0 40 °C Storage Temperature 20 85 °C Storage Humidity 5 95 % MTBF >30,000 hours	Input Current				2	A						
Output Current See Table Output Voltage (See Note 2) Line regulation is defined by changing ±10% of input voltage from nominal line and rated load. -1 +1 % Load Regulation -5 +5 % % Output Power See Table Test Table Test 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. 8.3 mVp-p Hold-up Time 8.3 \$ ms Turn-on Time 8.3 \$ ms PROTECTION Over Voltage Protection Latch off Automatiz recovery GENERAL SPECIFICATIONS Efficiency (typical) 85 % ENVIRONMENTAL SPECIFICATIONS 85 % Operating Temperature 0 40 °C Storage Temperature -20 85 °C Storage Humidity 5 95 % MTBF >30,000 hours PHYSICAL SPECIFICATIONS Test Specification (type Robert I) Test Specif	Inrush Current				90	A						
Output Voltage (See Note 2) Line regulation is defined by changing ±10% of input voltage from nominal line and full load a 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. 8.3 mVp-p Hold-up Time 8.3 ms ms Turn-on Time 8.3 ms ms PROTECTION Latch off Short Circuit Protection Automatic recovery GENERAL SPECIFICATIONS 4 Mutomatic recovery GENERAL SPECIFICATIONS 85 % Efficiency (typical) 85 % ENVIRONMENTAL SPECIFICATIONS 5 95 % Storage Temperature 0 40 °C Storage Humidity 5 95 % MTBF > 30,000 hours PHYSICAL SPECIFICATIONS 5 95 % Dimensions (L x W x H) 5.20 x 2.13 x 1.22 inches (132 x 54 x 31 mm) AC Inlet Con	OUTPUT SPECIFICATIONS											
Line Regulation Line regulation is defined by changing ±10% of input voltage from nominal line and rated load. -1	Output Current			See 7	Γable							
Line Regulation ±10% of input voltage from nominal line and rated load. -1 +1 % Load Regulation -5 4.5 % Output Power See Table Test 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. 8.3 mvPp Hold-up Time 8.3 ms Tun-on Time 1 3 s PROTECTION User Voltage Protection 1 Automatic recovery GENERAL SPECIFICATIONS Efficiency (typical) 85 % EMOTE Temperature 0 40 °C Storage Temperature -20 85 °C Storage Temperature -20 85 °C Storage Humidity 50.0000 buts HYSICAL 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) In	Output Voltage (See Note 2)			See 7	Γable							
Output Power 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 ms Turn-on Time 3 s PROTECTION Over Voltage Protection Latch off 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) 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	Line Regulation	±10% of input voltage from nominal line	-1		+1	%						
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 ms Turn-on Time 3 s PROTECTION Over Voltage Protection Latch off 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) 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 rd edition), TUV/RH EN/EC 66601-1, FCC, CB, CE	Load Regulation		-5		+5	%						
Ripple & Noise 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 1 ms Turn-on Time 8.3 3 s PROTECTION Over Voltage Protection Latch off Store the converted on the convert	Output Power		See Table									
Turn-on Time 3 s PROTECTION Over Voltage Protection Latch off Short Circuit Protection Automatic recovery GENERAL SPECIFICATIONS Efficiency (typical) 85 % ENVIRONMENTAL SPECIFICATIONS Storage 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) 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 rd edition), TUV/RH EN/IEC 60601-1, FCC, CB, CE	Ripple & Noise	with 20MHz limited bandwidth and 0.1μF ceramic and 47μF aluminum capacitors in	th 20MHz limited bandwidth and 0.1µF ramic and 47µF aluminum capacitors in			mVp-p						
PROTECTION Over Voltage Protection Latch off 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) 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 rd edition), TUV/RH EN/IEC 60601-1, FCC, CB, CE	Hold-up Time		8.3			ms						
Over Voltage Protection Latch off 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) 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 11.30z (320g) SAFETY & COMPLIANCE Safety Standards UL/cUL 60601-1 (3 rd edition), TUV/RH EN/IEC 60601-1, FCC, CB, CE	Turn-on Time				3	S						
Short Circuit Protection Automatic recovery GENERAL SPECIFICATIONS Efficiency (typical) 85 % ENVIRONMENTAL SPECIFICATIONS Storage 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) 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 rd edition), TUV/RH EN/IEC 60601-1, FCC, CB, CE	PROTECTION											
GENERAL SPECIFICATIONS Environmental Specifications 85 % 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) 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 rd edition), TUV/RH EN/IEC 60601-1, FCC, CB, CE	Over Voltage Protection	Latch off										
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) 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 rd edition), TUV/RH EN/IEC 60601-1, FCC, CB, CE	Short Circuit Protection	Automatic recovery				7						
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) 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 rd edition), TUV/RH EN/IEC 60601-1, FCC, CB, CE	GENERAL 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) 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 rd edition), TUV/RH EN/IEC 60601-1, FCC, CB, CE	Efficiency (typical)			85		%						
Storage Temperature -20 85 °C Storage Humidity 5 95 % MTBF > 30,000 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 rd edition), TUV/RH EN/IEC 60601-1, FCC, CB, CE	ENVIRONMENTAL SPECIFICAT	IONS										
Storage Humidity 5 95 % MTBF > 30,000 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 rd edition), TUV/RH EN/IEC 60601-1, FCC, CB, CE	Operating Temperature		0		40	°C						
MTBF > 30,000 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 UL/cUL 60601-1 (3 rd edition), TUV/RH EN/IEC 60601-1, FCC, CB, CE	Storage Temperature		-20		85	°C						
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 UL/cUL 60601-1 (3 rd edition), TUV/RH EN/IEC 60601-1, FCC, CB, CE	Storage Humidity		5		95	%						
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 rd edition), TUV/RH EN/IEC 60601-1, FCC, CB, CE	MTBF	> 30,000 hours										
AC Inlet Connector (See Note 1) Weight IEC-320-C14, IEC-320-C8, IEC-320-C6 Weight 11.3oz (320g) SAFETY & COMPLIANCE Safety Standards UL/cUL 60601-1 (3 rd edition), TUV/RH EN/IEC 60601-1, FCC, CB, CE	PHYSICAL SPECIFICATIONS											
Weight11.3oz (320g)SAFETY & COMPLIANCEUL/cUL 60601-1 (3rd edition), TUV/RH EN/IEC 60601-1, FCC, CB, CE	Dimensions (L x W x H)	5.20 x 2	2.13 x 1.22	2 inches (1	32 x 54 x	31 mm)						
SAFETY & COMPLIANCE Safety Standards UL/cUL 60601-1 (3 rd edition), TUV/RH EN/IEC 60601-1, FCC, CB, CE	AC Inlet Connector (See Note 1)	IEC-320-C14, IEC-320-C8, IEC-320-C6										
Safety Standards UL/cUL 60601-1 (3 rd edition), TUV/RH EN/IEC 60601-1, FCC, CB, CE	Weight	11.3oz (320g)										
	SAFETY & COMPLIANCE											
Compliance RoHS, WEEE, CEC/Energy Star Level V	Safety Standards	UL/cUL 60601-1 (3 rd edition), TUV/RH EN/IEC 60601-1, FCC, CB, CE										
	Compliance	Rol	HS, WEEI	E, CEC/Er	nergy Star	Level V						



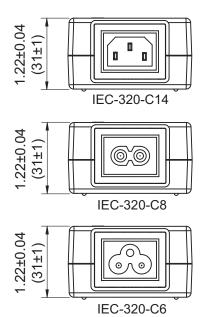
MODEL SELECTION TABLE										
Model Number (1) Input Voltage		Output Voltage (2)	Output Current		Ripple & Noise (3)	Maximum	AC Inlet Type			
Wiodel Number	Range	Output voltage	Min	Max	Kippie & Noise	Output Power	AC Inici Type			
DTEM1070 <mark>1</mark> A	100 ~ 240 VAC	12 ~ 17 VDC	0A	6A	250mVp-p	72W				
DTEM10701B		18 ~ 24 VDC	0A	4A	250mVp-p	72W	IEC-320-C14			
DTEM10701C	100 ~ 240 VAC	12 ~ 17 VDC	0A	5A	250mVp-p	60W				
DTEM10701D		18 ~ 24 VDC	0A	3.33A	250mVp-p	60W				
DTEM10702A	- 100 ~ 240 VAC	12 ~ 17 VDC	0A	6A	250mVp-p	72W				
DTEM10702B		18 ~ 24 VDC	0A	4A	250mVp-p	72W	IEC-320-C8			
DTEM10702C		12 ~ 17 VDC	0A	5A	250mVp-p	60W	1EC-320-C6			
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			
DTEM10703C	100 ~ 240 VAC	12 ~ 17 VDC	0A	5A	250mVp-p	60W	IEC-320-C0			
DTEM10703D		18 ~ 24 VDC	0A	3.33A	250mVp-p	60W				

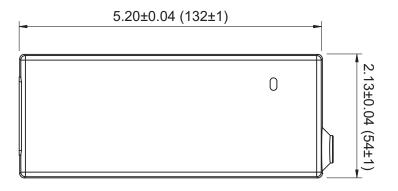
NOTES

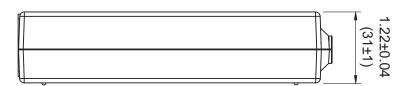
- 1. The number in **red** represents the type of AC inlet: "1" is for IEC-320-C14 type, "2" is for IEC-320-C8 type, and "3" is for IEC-320-C6 type.
- 2. The output voltage is specified as a range (Ex: 18~24VDC); the customer must specify what they want the voltage set at.
- 3. Ripple and Noise is measured 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

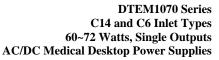
Unit: inches (mm)







All dimensions are for reference only





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:

E-mail: sales@wallindustries.com
Web: www.wallindustries.com
Address: 5 Watson Brook Rd.
Exeter, NH 03833