



Size: 4.21in x 2.64in x 1.42in (107mm x 67mm x 36mm)

FEATURES

- Universal Input Voltage of 100~240VAC
- Single Output Models
- IEC-320-C14, IEC-320-C8, IEC-320-C6, or Mains Cord Input
- USA or EU Mains Cord Available
- Over Voltage, Over Current, and Over Temperature Protection
- Meets 60601-1 3rd Edition
- Possesses Risk Analysis Report

DESCRIPTION

The DTMED30 series of AC/DC medical desktop power supplies offers up to 30 watts of output power in a 4.21" x 2.64" x 1.42" compact package. This series consists of single output models with a universal input voltage of 100~240VAC and different AC inlets to choose from. IEC-320-C14, IEC-320-C8, IEC-320-C6, and US or EU mains cord input are all available options for this series. Each model in this series has over voltage, over current, and over temperature protection as well as 60601-1 3rd edition safety approvals.

MODEL SELECTION TABLE

Model Number ⁽¹⁾	Input Voltage Range	Output Voltage	Output Current		Max. Output Power	Ripple Max	Load Regulation	Efficiency	No Load Power Consumption	Measured at Output
			Min Load	Max Load						
DTMED30X-0Y	100~240VAC	3~5VDC	5A		25W	30mV	±8%	>65%	<0.3W	3.3
DTMED30X-1Y		5~6VDC	4.17A	5.00A	25W	30mV	±8%	>68%		5
DTMED30X-1-1Y		6~8VDC	3.13A	4.17A	25W	40mV	±4%	>70%		7.5
DTMED30X-2Y		8~11VDC	2.73A	3.75A	30W	50mV	±4%	>84%		9
DTMED30X-3Y		11~13VDC	2.30A	2.73A	30W	50mV	±3%	>75%		12
DTMED30X-4Y		13~16VDC	1.88A	2.30A	30W	60mV	±3%	>75%		15
DTMED30X-5Y		16~21VDC	1.43A	1.88A	30W	70mV	±2%	>76%		18
DTMED30X-6Y		21~27VDC	1.11A	1.43A	30W	80mV	±2%	>77%		24
DTMED30X-7Y		27~33VDC	0.90A	1.11A	30W	100mV	±2%	>78%		28
DTMED30X-8Y		33~48VDC	0.63A	0.90A	30W	100mV	±2%	>78%		48

SPECIFICATIONS

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 Range		100		240	VAC
Input Frequency		50		60	Hz
Input Current		0.8		0.4	A
Inrush Current	@115VAC, at 25°C Cold Start		35		A
	@230VAC, at 25°C Cold Start		65		A
Leakage Current	@240VAC/50Hz			0.1	mA
OUTPUT SPECIFICATIONS					
Output Voltage		See Table			
Voltage Tolerance			±5		%
Line Regulation	For any input voltage change between input voltage range			±1	%
Load Regulation	Variations from minimum to maximum output current.				
Output Power		See Table			
Output Current		See Table			
Ripple		See Table			
Transient Response	Maximum excursion of 4% or better on all models. Recovering to 1% of final value within 500uS after a 25% step load change				
Hold-Up Time		10			mSec
Temperature Coefficient	All outputs			±0.04	%/°C
No Load Power Consumption				0.3	W
PROTECTION					
Output Voltage Protection	Provided on output set at 112~132% of its nominal output voltage				
Over Current Protection	Hiccup Mode Rated Output Current	110	Automatic Recovery		%
Over Temperature Protection	Activated		130		°C

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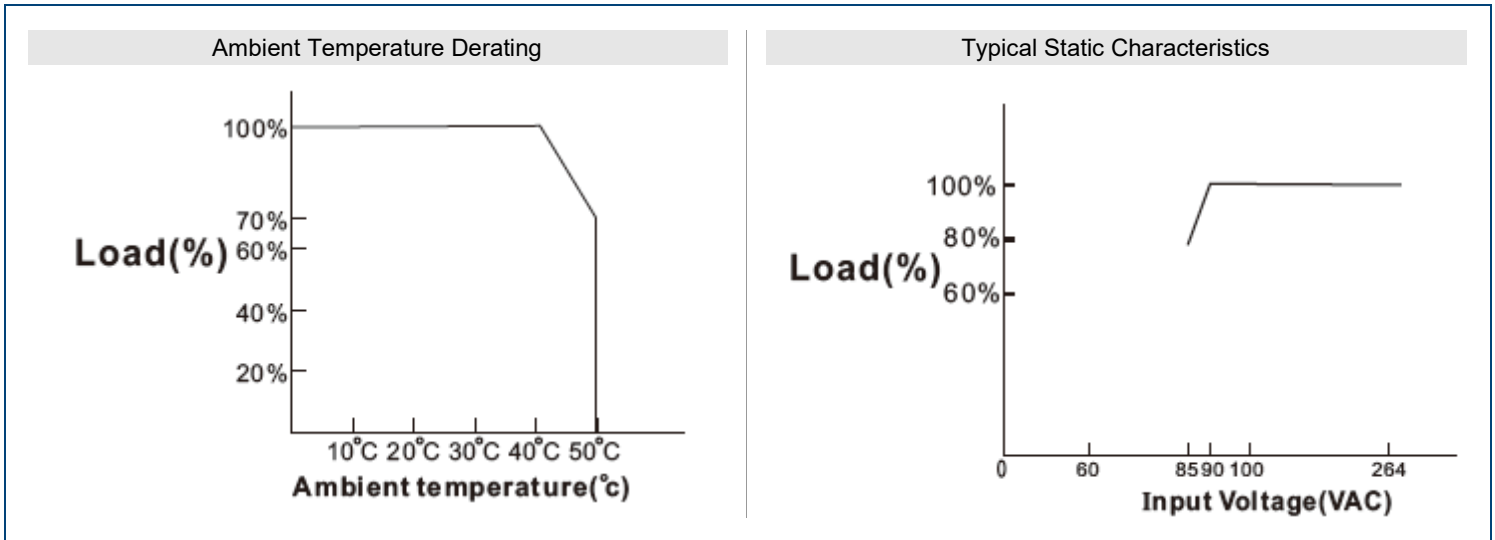
SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
ENVIRONMENTAL SPECIFICATIONS					
Operating Temperature		0		40	°C
Storage Temperature		-40		85	°C
Relative Humidity	Non-Condensing	5		95	%
Derating	Derated from 100% at +40°C linearly to 70% at 50°C				
MTBF	@Full Load at 25°C Ambient	100,000			Hours
GENERAL SPECIFICATIONS					
Efficiency		See Table			
Withstand Voltage	From Input to Output		5656		VDC
Insulation Resistance	From Input to Output	50			MΩ
PHYSICAL SPECIFICATIONS					
Weight		10.58~12.35oz (300~350g)			
Dimensions (L x W x H)		4.21in x 2.64in x 1.42in (107mm x 67mm x 36mm)			
SAFETY CHARACTERISTICS					
Safety Approvals		UL: ES60601-1 ⁽³⁾ CSA: C22.2 NO. 60601-1 CB: IEC 60601-1 EN: EN60601-1			
EMC		CE: EN60601-1-2 FCC Part 15/Part 18 Subpart B			

NOTES

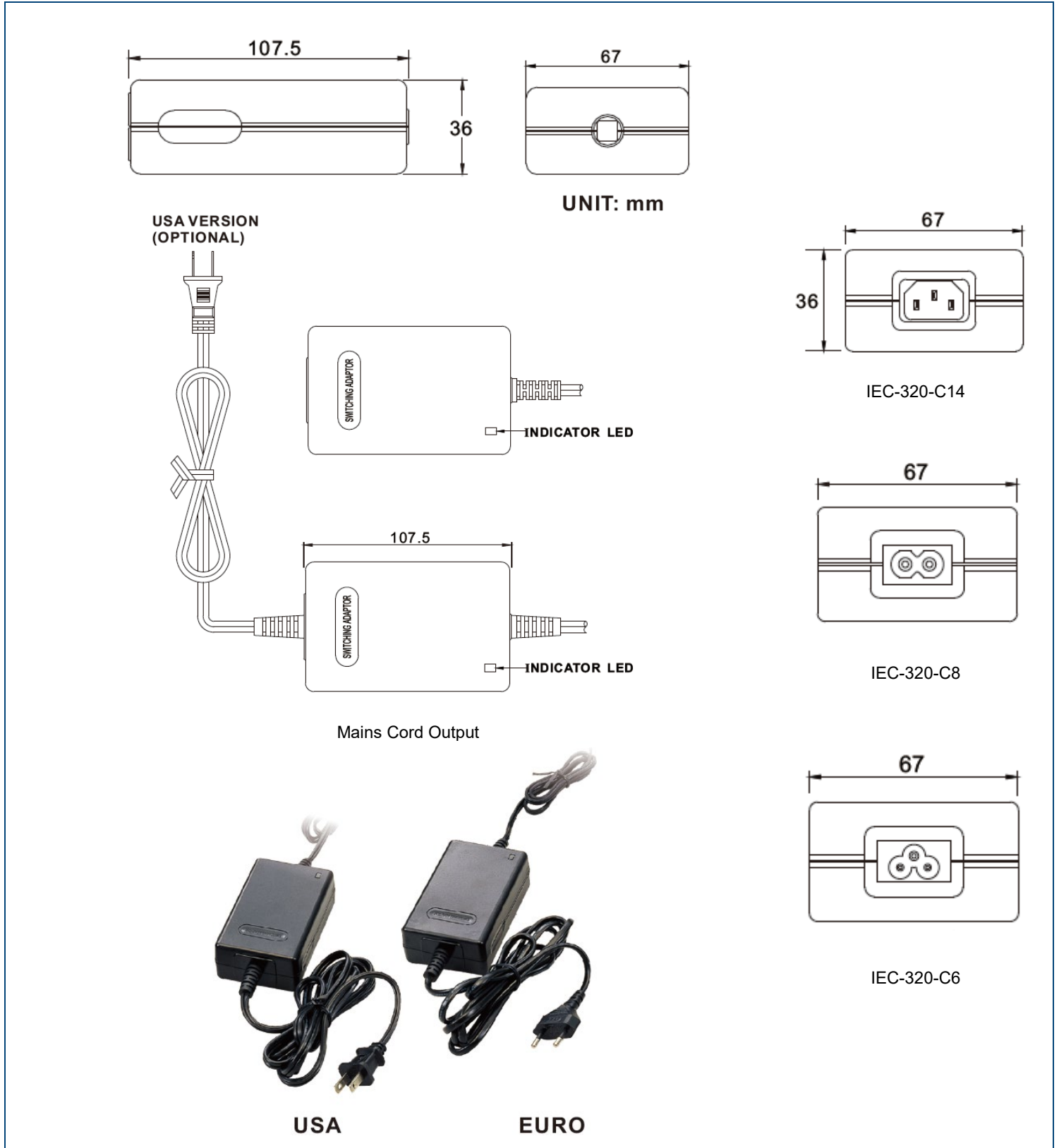
1. "X" in model number indicates the AC Inlet. "X" can either be "A" for IEC-320-C14, "B" for IEC-320-C8, "C" for IEC-320-C6, or "D" for Mains Cord Input. "Y" in input model indicates Mains Cord Type. "Y" will either be "U" for American plug type, or "E" for European plug type. "Y" will only change if "X" is "D".
2. Optional output connectors available.
3. This product is Listed to applicable standards and requirements by UL.

**Due to advances in technology, specifications subject to change without notice.*

DERATING CURVES



MECHANICAL DRAWINGS



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: 2015 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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