



Size: 5.75in x 2.97in x 1.69in (146mm x 75.5mm x 43mm)



**FEATURES**

- Universal Input Voltage Range of 100~240VAC
- Compact Package
- C14 or C6 AC Inlet
- Optional Output Connectors Available
- Over Voltage, Over Current, and Over Temperature Protection
- Possesses Risk Analysis Report
- UL: ES60601-1, CSA: C22.2 NO. 60601-1, CB: IEC 60601-1, and EN: EN60601-1 Safety Approvals

**DESCRIPTION**

The DTMED50 series of AC/DC medical desktop power supplies offers up to 50 watts of output power in a 5.75" x 2.97" x 1.69" compact package. This series has a universal input voltage range of 100~240VAC and single output models. Each model in this series has over voltage, over current, and over temperature protection as well as risk analysis report. C14 or C6 AC inlets are available as well as optional output connectors. This series has UL: ES60601-1, CSA: C22.2 NO. 60601-1, CB: IEC 60601-1, and EN: EN60601-1 safety approvals

**MODEL SELECTION TABLE**

Model Number <sup>(1)</sup>	Input Voltage Range	Output Voltage	Output Current		Max. Output Power	Ripple Max.	Efficiency	Load Regulation	No Load Power Consumption	Measured at Output
			Min Load	Max Load						
DTMED50X-0	100~240VAC	3~5VDC	7.50A		37.5W	50mV	>60%	±8%	<0.5W	3.3
DTMED50X-1		5~6VDC	6.25A	7.50A	37.5W	50mV	>67%	±6%		5
DTMED50X-1-1		6~8VDC	5.00A	6.66A	40W	75mV	>70%	±5%		7.5
DTMED50X-2		8~11VDC	4.09A	5.62A	45W	90mV	>72%	±5%		9
DTMED50X-3		11~13VDC	3.84A	4.54A	50W	100mV	>74%	±5%		12
DTMED50X-4		13~16VDC	3.12A	3.84A	50W	100mV	>75%	±3%		15
DTMED50X-5		16~21VDC	2.38A	3.12A	50W	150mV	>78%	±3%		18
DTMED50X-6		21~27VDC	1.85A	2.38A	50W	150mV	>78%	±2%		24
DTMED50X-7		27~33VDC	1.51A	1.85A	50W	200mV	>78%	±2%		28
DTMED50X-8	33~48VDC	1.04A	1.51A	50W	200mV	>80%	±2%	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
		<b>INPUT SPECIFICATIONS</b>			
Input Voltage Range		100		240	VAC
Input Frequency		50		60	Hz
Input Current		1.5		0.8	A
Inrush Current	@115VAC, 25°C, Cold Start		65		A
	@230VAC, 25°C, Cold Start		90		A
Leakage Current	@240VAC/50Hz			0.1	mA
<b>OUTPUT SPECIFICATIONS</b>					
Output Voltage		See Table			
Voltage Tolerance			±5		%
Line Regulation	For any input voltage change between input voltage range			±1	%
Load Regulation	Variation from Minimum to Maximum output current	See Table			
Output Power		See Table			
Output Current		See Table			
No Load Power Consumption				0.5	W
Ripple & Noise		See Table			
Transient Response	Maximum excursion of 4% of 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
<b>PROTECTION</b>					
Over Voltage Protection	Provided on outputs set at 112~132% of its nominal output voltage				
Over Current Protection	Hiccup Mode Rated Output Current	110	Automatic Recovery		
Over Temperature Protection		130°C			

**SPECIFICATIONS**

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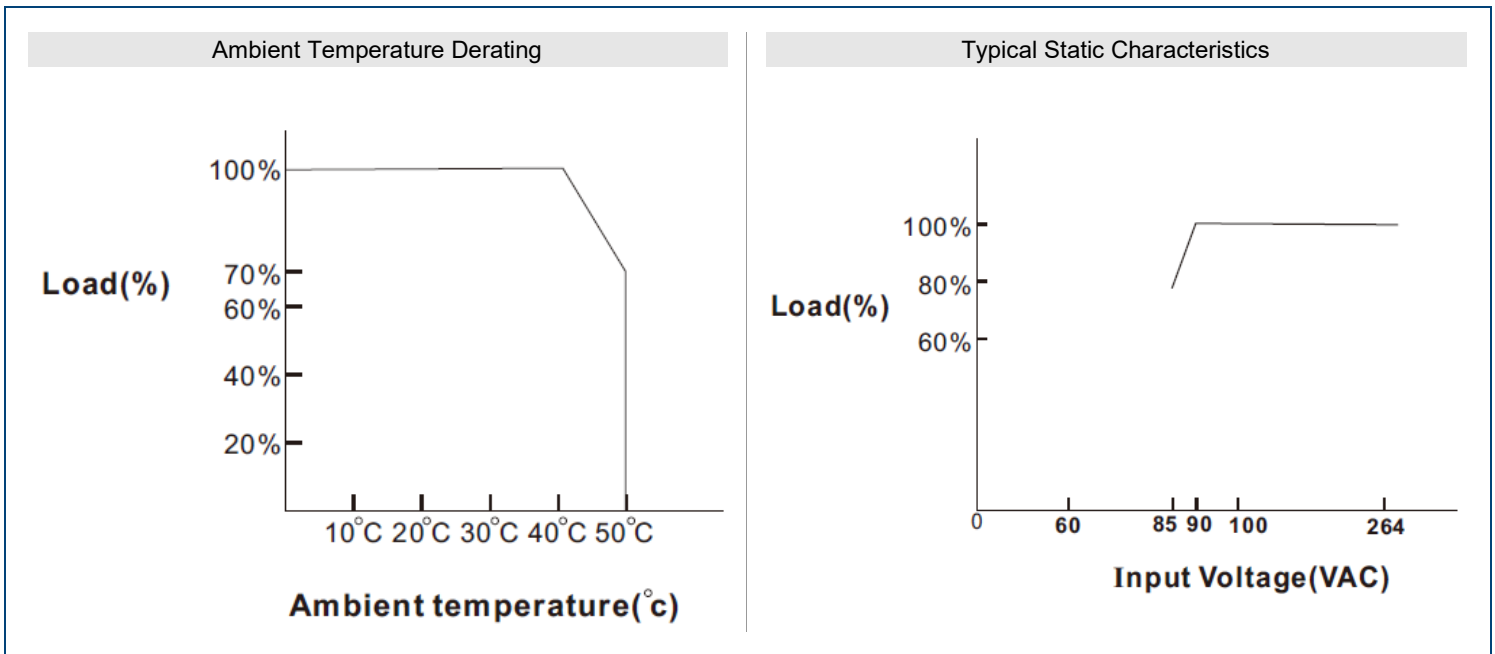
SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
<b>ENVIRONMENTAL SPECIFICATIONS</b>					
Operating Temperature		0		40	°C
Storage Temperature		-40		+85	°C
Relative Humidity	Non-Condensing	5		95	%
Derating	Derated from 100% at +40°C linearly to 70% at 50°C				
MTBF	@Full load, 25°C	100,000			Hours
<b>GENERAL SPECIFICATIONS</b>					
Min. Efficiency		See Table			
Withstand Voltage	From Input to Output		5656		VDC
Insulation Resistance	From Input to Output	50			MΩ
<b>PHYSICAL SPECIFICATIONS</b>					
Weight		18.70~20.46oz (530~580g)			
Dimensions (L x W x H)		5.75in x 2.97in x 1.69in (146mm x 75.5mm x 43mm)			
<b>SAFETY CHARACTERISTICS</b>					
Safety Approvals		UL: ES60601-1 <sup>(3)</sup> CSA: C22 NO. 60601-1 CB: IEC 60601-1 EN: EN60601-1			
EMC		EN60601-1-2: 2007 FCC Part 15 & Part 18 Class B			

**NOTES**

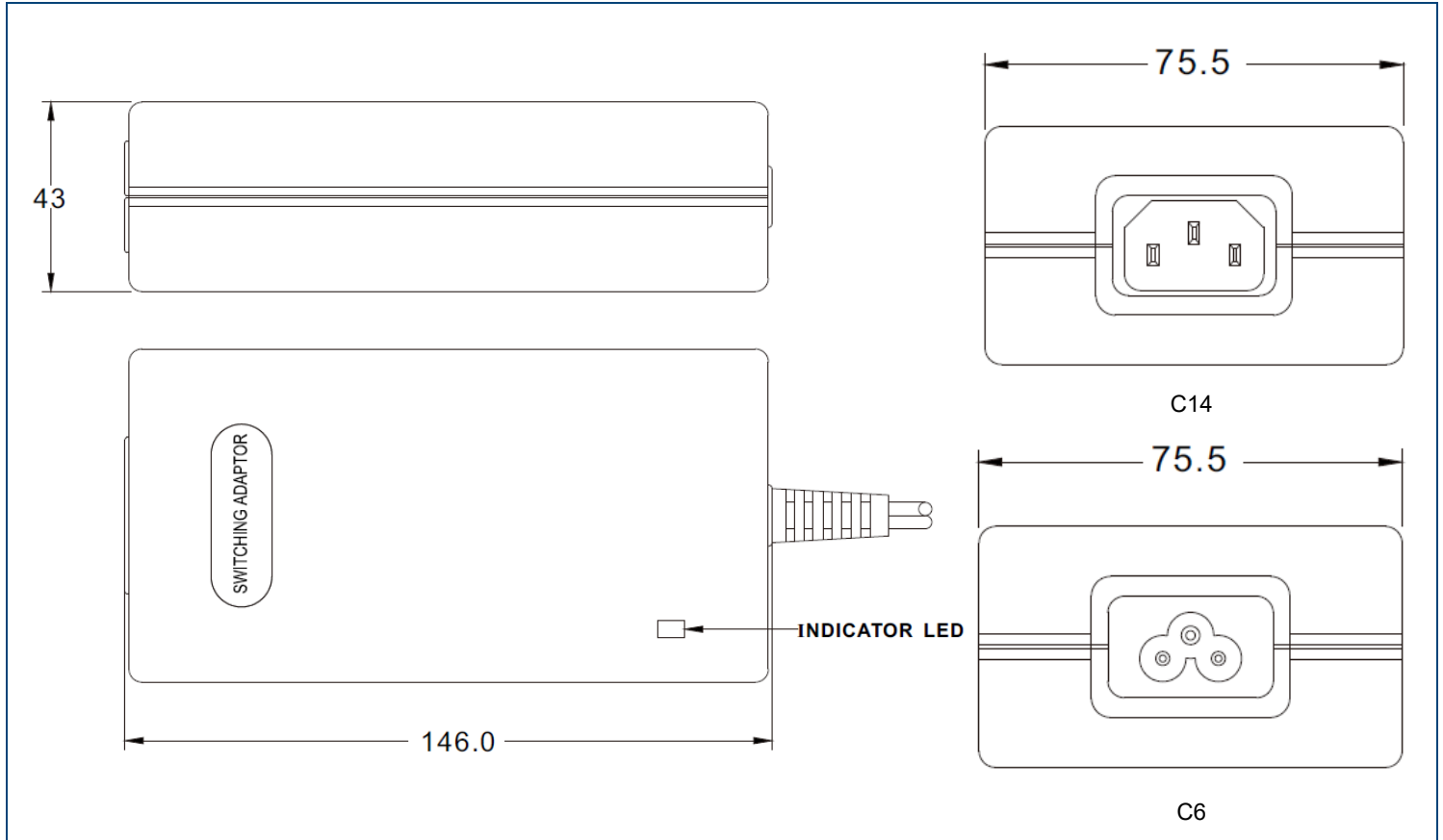
1. "X" in model number indicates AC inlet. "X" can either be "A" for C14 inlet or "B" for C6 inlet.
2. Optional output connectors are available.
3. This product is Listed to applicable standards and requirements by UL.

*\*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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