



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



FEATURES

- Universal Input Voltage Range of 100~240VAC
- Low Leakage Current
- Meets EISA 2007/DoE (VI) & EU ErP/CoC (5)
- C14 or C6 AC Inlet
- Over Voltage, Over Current, and Short Circuit Protection
- Means of Patient Protection Design
- Meets 60601-1 3rd Edition
- UL: ES60601-1, CSA:C22.2 NO.60601-1, CB: IEC 60601-1, and EN: EN60601-1 Safety Approvals

DESCRIPTION

The DTGMPU70 series of AC/DC medical desktop power supplies offers 70 watts of output power in a 5.75" x 2.97" x 1.69" package. This series consists of single output models with a universal input voltage range of 100~240VAC and either a C14 or C6 AC inlet. Each model in this series has low leakage current, meets EISA 2007/DoE (VI) & EU ErP/CoC (5), and has over voltage, over current and short circuit protection. 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 ⁽¹⁾	Input Voltage Range	Output Voltage	Measured At Output	Output Current		Ripple Max.	Output Power	Efficiency ⁽²⁾	
				Min Load	Max Load			DoE(VI)	CoC(5)
DTGMPU70X-3	100~240VAC	11~13VDC	12	5.39A	6.37A	120mv	70W	88%	89%
DTGMPU70X-4		13~16VDC	15	4.38A	5.39A	120mV	70W	88%	89%
DTGMPU70X-5		16~21VDC	18	3.34A	4.38A	180mV	70W	88%	89%
DTGMPU70X-6		21~27VDC	24	2.60A	3.34A	180mV	70W	88%	89%
DTGMPU70X-7		27~33VDC	32	2.13A	2.60A	240mV	70W	88%	89%
DTGMPU70X-8		33~48VDC	48	1.22A	2.13A	240mV	70W	88%	89%

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 Voltage Range		100		240	VAC
Input Frequency		50		60	Hz
Input Current		1.8		0.8	A
Inrush Current	@230VAC, 25°C, Cold Start		100		A
Leakage Current	@240VAC/50Hz			0.1	mA
OUTPUT SPECIFICATIONS					
Output Voltage		See Table			
Line Regulation	For any input voltage change between input voltage range			±1	%
Load Regulation	Variations from minimum to maximum output current		±5		%
Output Power		See Table			
Output Current		See Table			
No Load Power Consumption				0.15	%
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		8			mSec
PROTECTION					
Short Circuit Protection	Hiccup Mode			Automatic Recovery	
Over Current Protection	Hiccup Mode Rated Output Current	110			%
Over Voltage Protection	Protected by Zener Diode Rated Output Voltage	110		140	%
ENVIRONMENTAL SPECIFICATIONS					
Operating Temperature		-20		+40	°C
Storage Temperature		-40		+85	°C
Relative Humidity	Non-Condensing	5		95	%
Derating	Derated from 100% at +40°C linearly to 50% at 70°C				
MTBF	@Full Load, 25°C ambient	100,000			Hours

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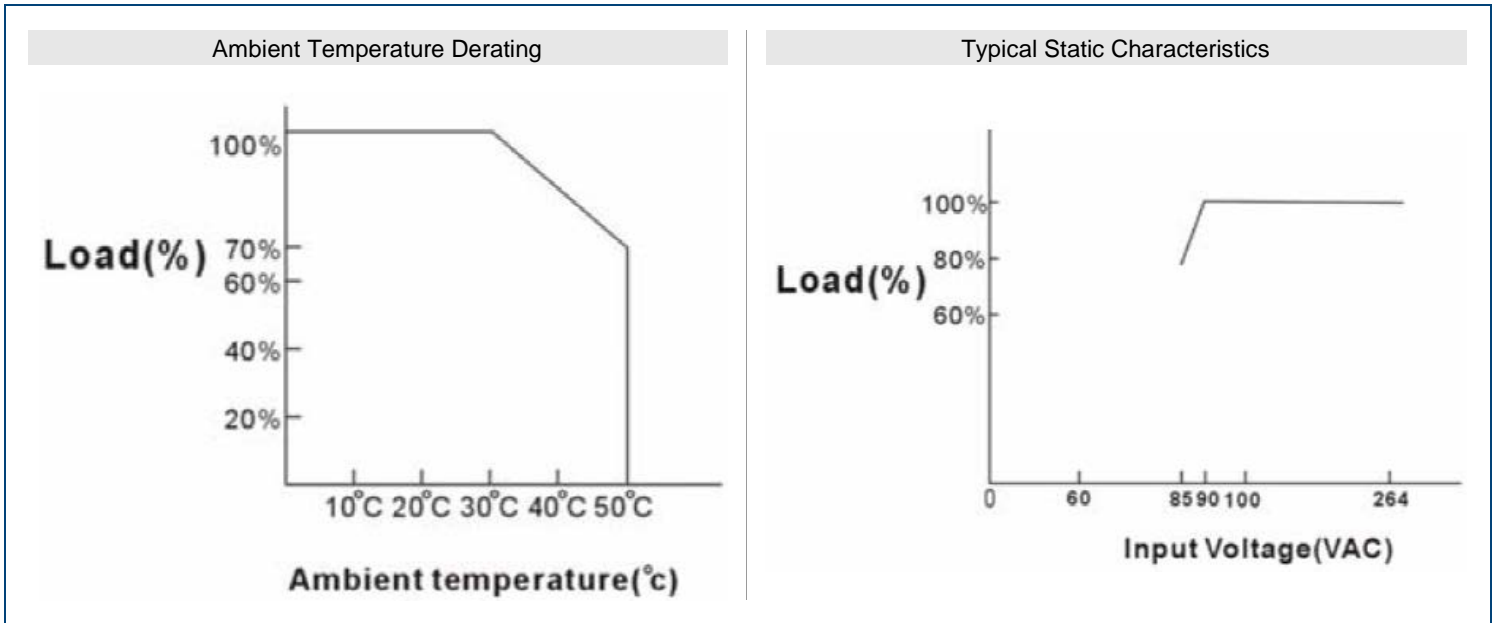
SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit	
GENERAL SPECIFICATIONS						
Efficiency		See Table				
Withstand Voltage	From Input to Output		5656		VDC	
Insulation Resistance	From Input to Output	50			MΩ	
PHYSICAL SPECIFICATIONS						
Weight		13.05~13.23oz (370~375g)				
Dimensions (L x W x H)		5.75in x 2.97in x 1.69in (146mm x 75.5mm x 43mm)				
SAFETY CHARACTERISTICS						
Safety Approvals		UL: ES60601-1 CSA: C22.2 NO.60601-1 CB: IEC 60601-1 EN: EN60601-1 CE: EN60601-1				
EMC		FCC Part 15/Part 18 Subpart B				Class

NOTES

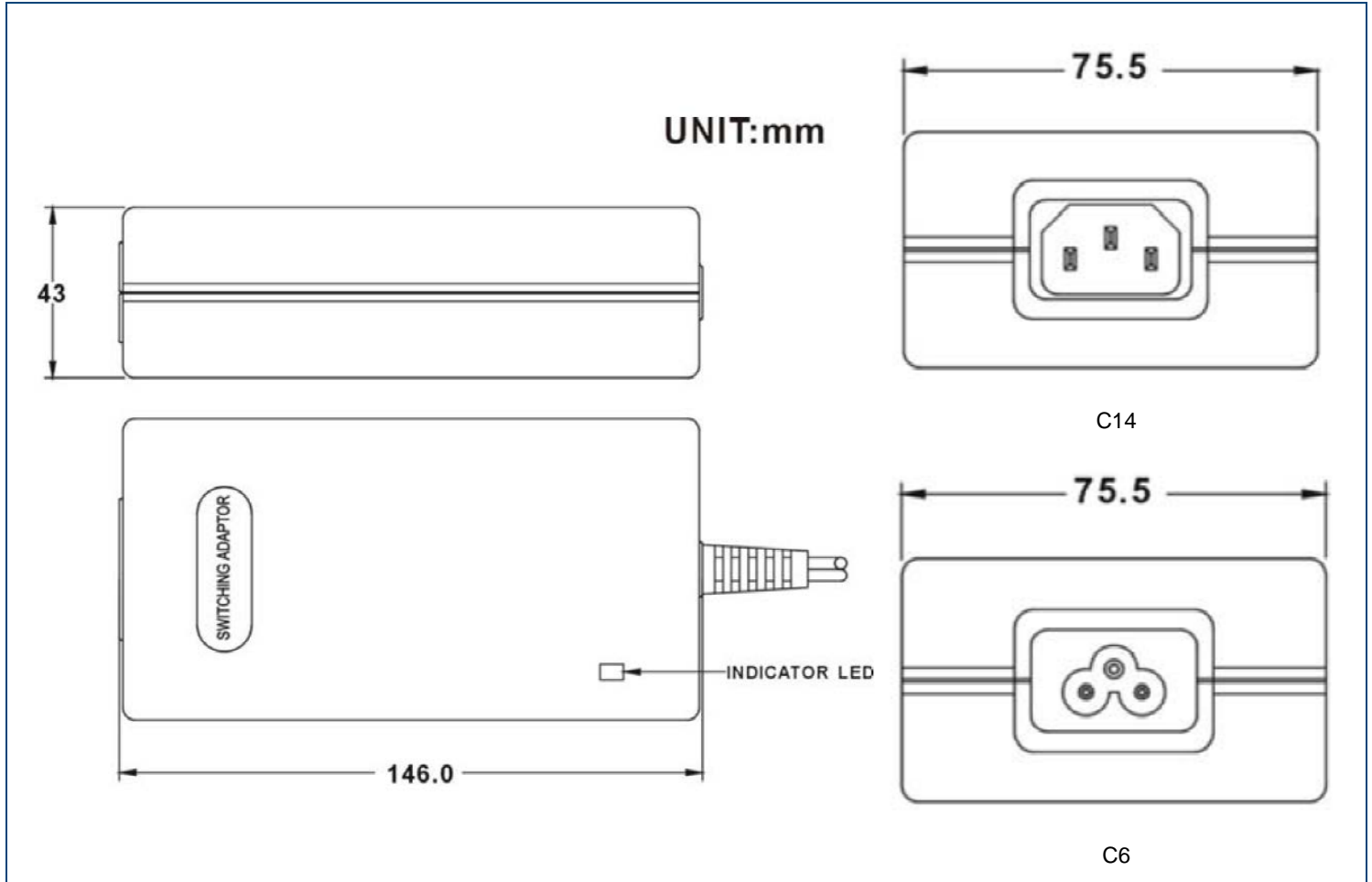
1. "X" in model number indicates AC inlet type. "X" can either be "A" for C14 or "B" for C6.
2. Avg. Efficiency: Averages the efficiency at 25, 50, 75, and 100% of max. rated output load.
3. Standard Output Cable: 11~16V: UL1571, 14AWG, 1M
16~21V: UL1571, 16AWG, 1M
21~48V: SPT-1, 18AWG, 6FT
4. Optional Output Connectors Available

*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 ISO9001-2008 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:

Phone: ☎(603)778-2300
Toll Free: ☎(888)597-9255
Fax: ☎(603)778-9797
E-mail: sales@wallindustries.com
Web: www.wallindustries.com
Address: 37 Industrial Drive
Exeter, NH 03833