



FEATURES

- Universal Input Voltage Range of 100~240VAC
- Single Outputs
- Possess Risk Analysis Report
- Means of Patient Protection
- IEC-320-C14, IEC-320-C18, or IEC-320-C16
- Over Voltage, Over Current, and Short Circuit Protection
- For use in Personal Hygiene and Health Care Appliances
- UL: ES60601-1, CSA: C22/2 NO. 60601-1, CB: IEC60601-1, and EN: EN60601-1 Safety Approvals

DESCRIPTION

The DTGMPU18 series of AC/DC medical desktop power supplies offers 18 watts of output power in a 3.94" x 2.30" x 1.29" package. This series consists of single output models with universal input voltage range of 100~240VAC and different options available. Either an IEC-320-C14, IEC-320-C18, or IEC-320-C6 AC inlet and there are several optional output connectors available. Each model in this series has over voltage, over current, and short circuit protection while 5~6 and 8~58VDC models meet EISA 2007/DoE (VI) & EU ErP/CoC (5).

Size: 3.94in x 2.30in x 1.29in (100mm x 58.5mm x 32.8mm)

MODEL SELECTION TABLE

Model Number	Input Voltage Range	Output Voltage	Output Current		Max. Output Power	Ripple Max	Load Regulation	Efficiency		Efficiency Level (DoE/CoC)	No Load Power Consumption	Measured at Output
			Min Load	Max Load				DoE (VI)	CoC (5)			
DTGMPU18X-1	100~240 VAC	5~6VDC	2.50A	3.00A	15W	80mV	±5%	>81.39%	>81.84%	VI, 5	<0.075W	5
DTGMPU18X-1-1		6~8VDC	1.87A	2.50A	15W	80mV	±5%	>79.2%	>79.2%	V, 4	<0.3W	7.5
DTGMPU18X-2		8~11VDC	1.64A	2.25A	18.04W	100mV	±5%	>85%	>85.45%	VI, 5	<0.075W	9
DTGMPU18X-3		11~13VDC	1.38A	1.64A	18.04W	120mV	±5%	>85%	>85.45%	VI, 5	<0.075W	12
DTGMPU18X-4		13~16VDC	1.13A	1.38A	18.08W	150mV	±5%	>85%	>85.45%	VI, 5	<0.075W	15
DTGMPU18X-5		16~21VDC	0.86A	1.13A	18.08W	150mV	±5%	>85%	>85.45%	VI, 5	<0.075W	18
DTGMPU18X-6		21~27VDC	0.67A	0.86A	18.09W	150mV	±5%	>85%	>85.45%	VI, 5	<0.075W	24
DTGMPU18X-7		27~33VDC	0.55A	0.67A	18.15W	240mV	±3%	>85%	>85.45%	VI, 5	<0.075W	28
DTGMPU18X-8	33~58VDC	0.32A	0.55A	18.56W	240mV	±3%	>85%	>85.45%	VI, 5	<0.075W	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	TEST CONDITIONS			Unit
		Min	Typ	Max	
INPUT SPECIFICATIONS					
Input Voltage Range		100		240	VAC
Input Frequency		47		63	Hz
Input Current		0.45		0.2	A
Inrush Current	@115VAC, 25°C, Cold Start @230VAC, 25°C, Cold Start		50 90		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			See Table	
Output Power				See Table	
Output Current				See Table	
Ripple				See Table	
Transient Response	Maximum Excursion of 45 or better on all models. Recovering to 1% of final value within 500uS after a 25% step load change.				
Set Up Time	@Full Load		1000		mS
Hold Up Time	@Full Load		10		mS
Rise Time	@Full Load		50		mS
Temperature Coefficient	All Outputs			±0.04	%/°C
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	%

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.

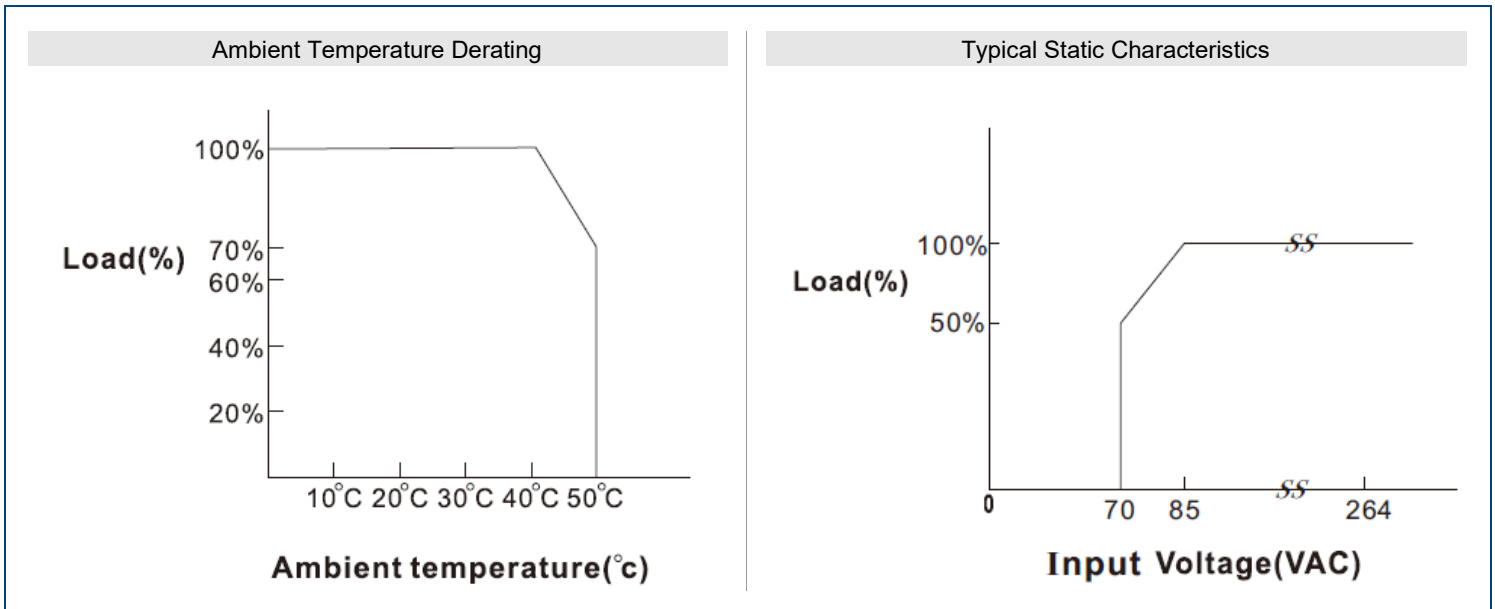
SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
ENVIRONMENTAL SPECIFICATIONS					
Operating Temperature		0		40	°C
Storage Temperature		-40		85	°C
Relative Humidity	Non-Condensing	5		95	%RH
Derating	Derated from 100% at 40°C linearly to 70% at 50°C				
MTBF	@Full Load at 25°C ambient	100,000			Hours
GENERAL SPECIFICATIONS					
Efficiency		See Table			
Withstanding Voltage	From Input to Output		5656		VDC
Insulation Resistance	From Input to Output	50			MΩ
PHYSICAL SPECIFICATIONS					
Weight		4.94~5.64oz (140~160g)			
Dimensions (L x W x H)		3.94in x 2.30in x 1.29in (100mm x 58.5mm x 32.8mm)			
SAFETY CHARACTERISTICS					
Safety Approvals		UL: ES60601-1 ⁽⁶⁾ 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

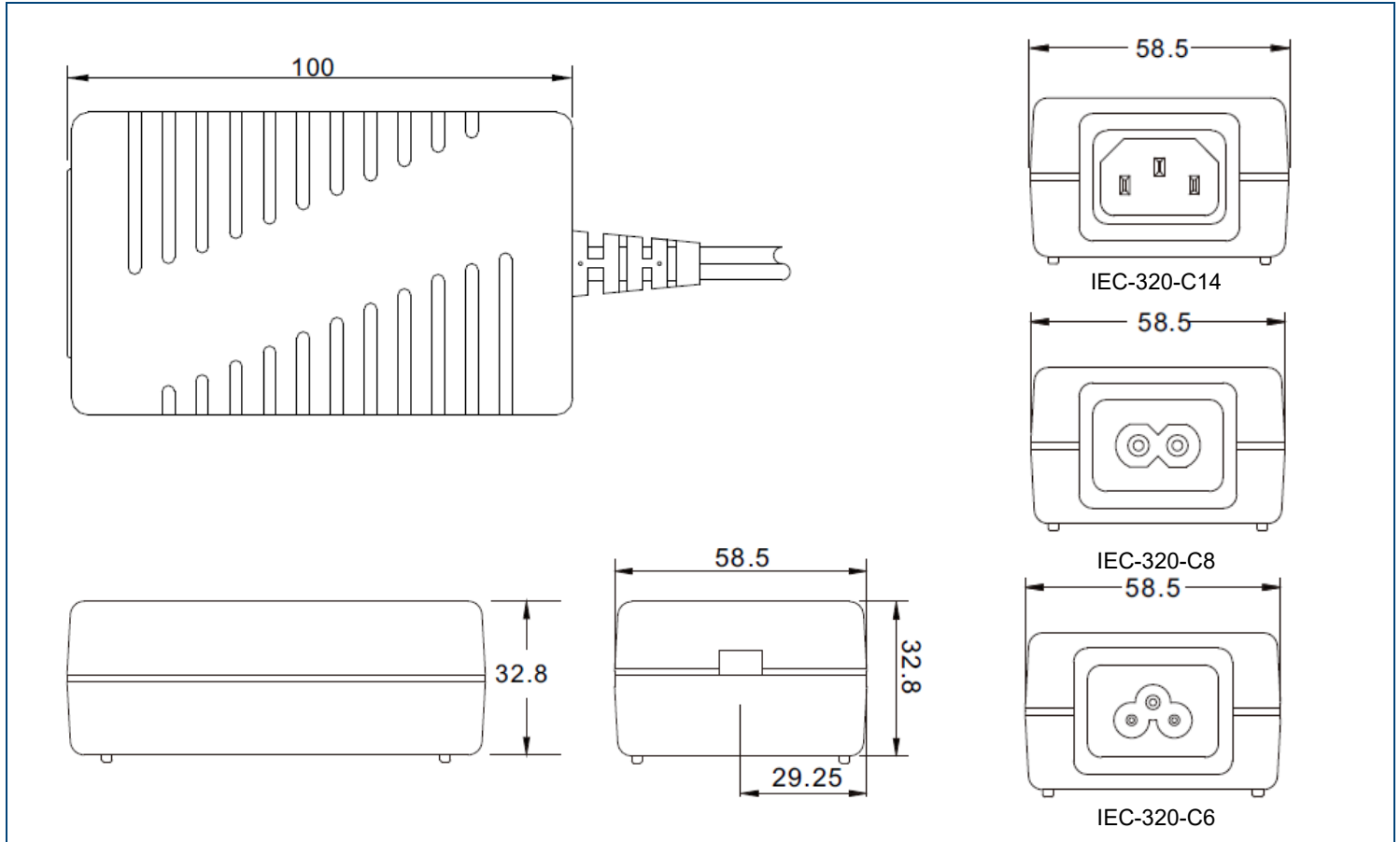
1. "X" in model number indicates AC Inlet. "X" can either be "A" for IEC-320-C14, "B" for IEC-320-C8, or "C" for IEC-320-C6.
2. Avg. Efficiency: averages the efficiency at 25, 50, 75, and 100%.
3. Standard Output Cables: 5~5.9V: UL2468, 16AWG, 1M
6~8V: UL2468, 20AWG, 4FT
8~11V: UL2468, 16AWG, 1M
11~13V: UL2468, 18AWG, 1M
13~58V: UL2468, 22AWG, 5FT
4. Optional output connectors
5. 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.

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

©2019 Wall Industries, Inc. Specifications subject to change without notice. Wall Industries is not responsible for typographical errors. The information contained herein is for informational purposes only. This information is provided by Wall Industries and we make no representations or warranties of any kind, express or implied, about the completeness, accuracy, reliability, suitability or availability with respect to the information contained in this document for any purpose. All product and manufacturer names are trademarks or registered trademarks of their respective companies.