



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	Measured at Output	Output Current		Ripple Max.	Load Regulation	Output Power	Efficiency Level (DoE/CoC)	Efficiency	
				Min Load	Max Load					DoE	CoC
DTGMPU18X-1	100~240VAC	5~6VDC	5	2.50A	3.00A	80mV	±5%	15W	VI, 5	>81.39%	>81.84%
DTGMPU18X-1-1		6~8VDC	7.5	1.87A	2.50A	80mV	±5%	15W	V, 4	>79.2%	>79.2%
DTGMPU18X-2		8~11VDC	9	1.64A	2.25A	100mV	±5%	18.04W	VI, 5	>85%	>85.45%
DTGMPU18X-3		11~13VDC	12	1.38A	1.64A	120mV	±5%	18.04W	VI, 5	>85%	>85.45%
DTGMPU18X-4		13~16VDC	15	1.13A	1.38A	150mV	±5%	18.08W	VI, 5	>85%	>85.45%
DTGMPU18X-5		16~21VDC	18	0.86A	1.13A	150mV	±5%	18.08W	VI, 5	>85%	>85.45%
DTGMPU18X-6		21~27VDC	24	0.67A	0.86A	150mV	±5%	18.09W	VI, 5	>85%	>85.45%
DTGMPU18X-7		27~33VDC	28	0.55A	0.67A	240mV	±3%	18.15W	VI, 5	>85%	>85.45%
DTGMPU18X-8	33~58VDC	48	0.32A	0.55A	240mV	±3%	18.56W	VI, 5	>85%	>85.45%	

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	Efficiency			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		50		A
	@230VAC, 25°C, Cold Start		90		
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				Automatic Recovery
	Rated Output Current	110			%
Over Voltage Protection	Protected by Zener diode				
	Rated Output Voltage	110		140	%

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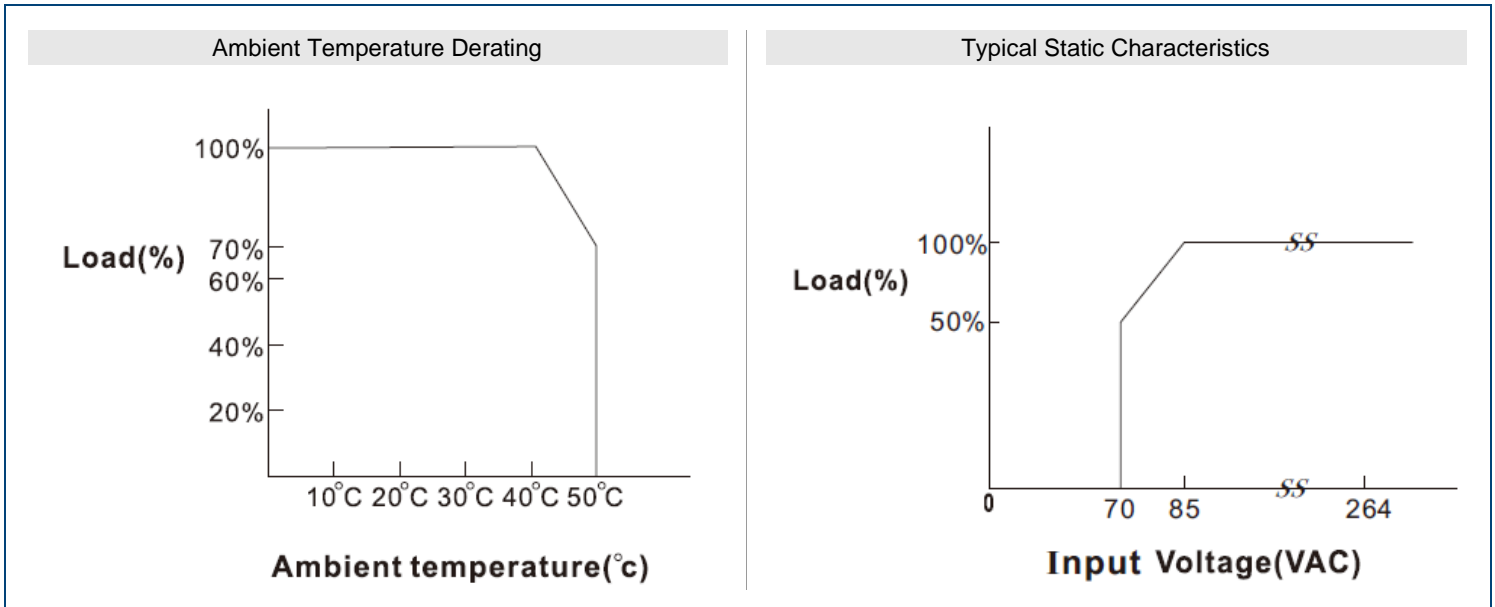
SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
ENVIRONMENTAL SPECIFICATIONS					
Operating Temperature		0		40	°C
Storage Temperature		-40		85	°C
Relative Humidity	Non-Condensing	5		95	%RH
Derating	Derated from 100% at 40°C linearly to 70% at 50°C				
MTBF	@Full Load at 25°C ambient	100,000			Hours
GENERAL 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 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

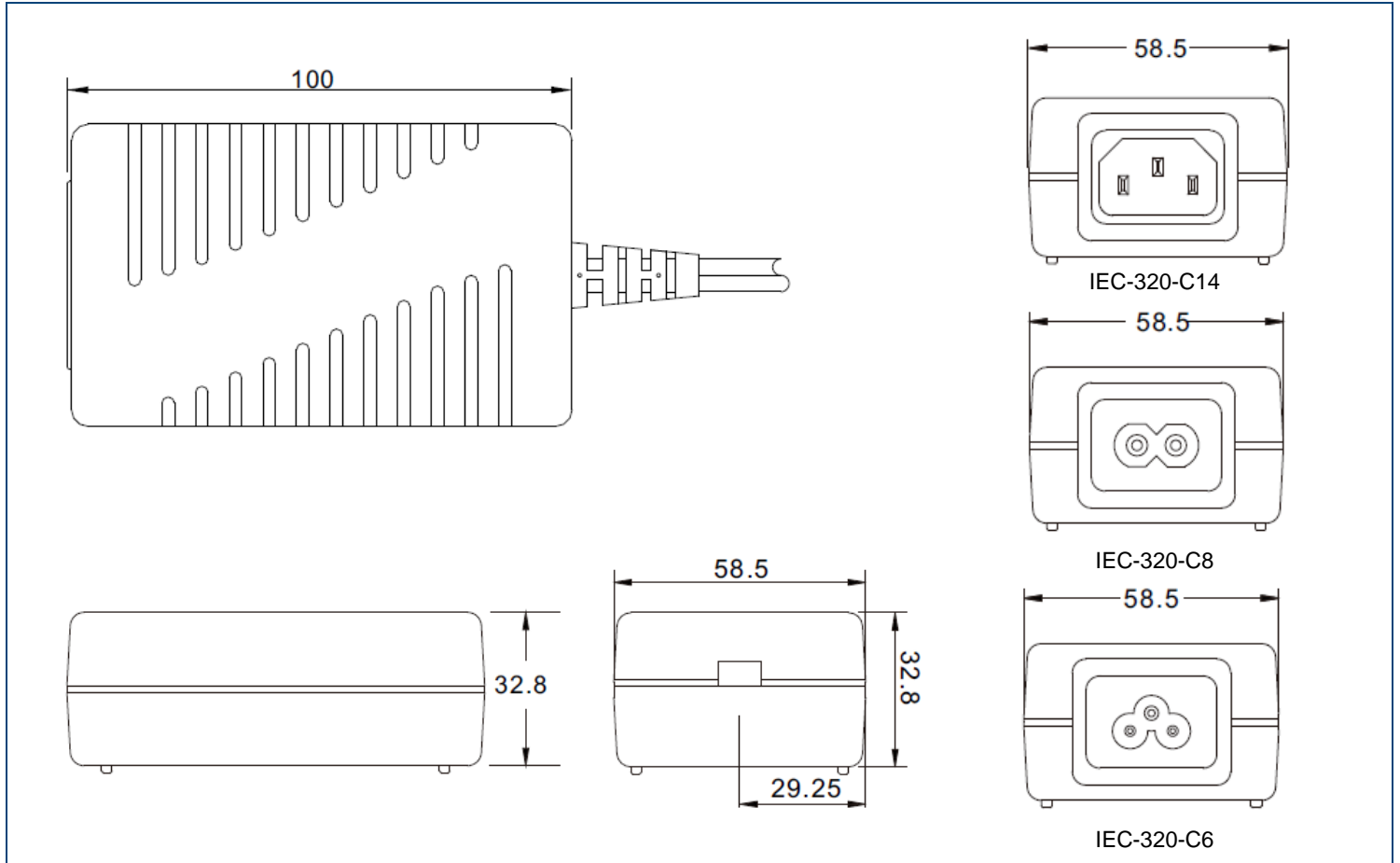
- "X" in model number indicates AC Inlet. "X" can either be "A" for IEC-320-C14, "B" for IEC-320-C8, or "C" for IEC-320-C6.
- Avg. Efficiency: averages the efficiency at 25, 50, 75, and 100%.
- Standard Output Cables: 5~5.9V: UL2468, 16AWG, 1M
6~8V: UL2468, 20AWG, 4FT
8~11V: UL2468, 16AWG, 1M
11~13V: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

*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.

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