

### FEATURES

- 100% Burn-in
- Class I Insulation
- Optional On/Off Switch
- IEC-320-C14 Input Inlet
- Output Voltage Protection
- Active Power Factor Correction
- Energy Star 2.0, Efficiency Level V
- Optional Output Connectors Available
- Ultra-Low Leakage Current (under 0.1mA)
- Wide Input Voltage 90 to 260VAC, 47 to 63Hz
- Input Surge Current, Over Voltage, and Over Load Protection



### DESCRIPTION

The DTMPU130 Series of AC/DC medical approved power supplies provide 130 Watts of continuous output power. All supplies are Energy Star 2.0 Level V and UL94V-1 min compliant. This series has single output models with an input voltage range of 90~260VAC. These supplies also have an IEC-320-C14 AC input for worldwide applications. This series is best suited for use in hospital instrumentation and many other applications. All models meet FCC Part-18 class B, CISPR-11 EN55011 class B emission limits and are designed to comply with UL/c-UL (UL 60601-1), TUV/T-mark (EN 60601-1) and new CE requirements. All models are 100% burn-in tested.



SPECIFICATIONS: DTMPU130 Series					
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	Nom	Max	Unit
<b>INPUT (V<sub>in</sub>)</b>					
Operating Voltage Range		90		260	VAC
Input Frequency		47		63	Hz
Input Current (Low Line)	I <sub>o</sub> = Full Load, V <sub>in</sub> = 115VAC			1.32	A
Input Current (High Line)	I <sub>o</sub> = Full Load, V <sub>in</sub> = 230VAC			0.66	A
Inrush Current (Low Line)	I <sub>o</sub> = Full Load, 25°C, Cool Start, V <sub>in</sub> = 115VAC			30	A
Inrush Current (High Line)	I <sub>o</sub> = Full Load, 25°C, Cool Start, V <sub>in</sub> = 230VAC			50	A
Safety Ground Leakage Current	I <sub>o</sub> = Full Load, V <sub>in</sub> = 240VAC / 60Hz			0.1	mA
Start-Up Time	I <sub>o</sub> = Full Load, V <sub>in</sub> = 100VAC			2	s
<b>OUTPUT (V<sub>o</sub>)</b>					
Output Voltage		See Table			VDC
Load Regulation	V <sub>in</sub> = 230VAC		5		%
Line Regulation	I <sub>o</sub> = Full Load		0.5	1	%
Output Power Range	V <sub>in</sub> = 90 to 264VAC	0		130	W
Output Current Range		See Table			A
Ripple & Noise (peak to peak)	Full Load, V <sub>in</sub> = 90VAC			1	%
Transient Response Time	I <sub>o</sub> = Full Load to Half Load, V <sub>in</sub> = 100VAC			4	ms
Hold-Up Time	I <sub>o</sub> = Full Load, V <sub>in</sub> = 110VAC	16			ms
Temperature Coefficient	All Outputs	-0.04		+0.04	%/°C
<b>PROTECTION</b>					
Over Voltage Protection		112		132	%
Over Current Protection		110		150	%
<b>GENERAL</b>					
Efficiency	I <sub>o</sub> = Full Load, V <sub>in</sub> = 230VAC		88		%
Dielectric Withstanding Voltage For Primary to Secondary	Primary to Secondary	5656			VDC
Dielectric Withstanding Voltage For Primary to Ground	Primary to Ground	2800			VDC
Isolation Resistance	I <sub>o</sub> =Full load, V <sub>in</sub> =230VAC	50			MΩ
Power Factor Correction	I <sub>o</sub> = Full Load, V <sub>in</sub> = 230VAC	0.95		1	
<b>ENVIRONMENTAL</b>					
Operating Temperature	Derate linearly from 100% Load at 40°C to 50% load at 70°C	0	40	+70	°C
Storage Temperature		-40		+85	°C
Relative Humidity		5		95	%
MTBF	Operating Temperature at 25°C, Calculated per MIL-HDBK-217F	100,000 hours			
<b>PHYSICAL</b>					
Weight		Approx. 27.44 ~ 28.22oz (778 ~ 800g)			
Dimensions (L x W x H)		7.44 x 3.52 x 1.79 inches			
<b>SAFETY</b>					
EMI Requirements for CISPR-11	V <sub>in</sub> = 220VAC	B			Class
EMI Requirements for FCC PART-18	V <sub>in</sub> = 110VAC	B			Class

### MODEL SELECTION TABLE

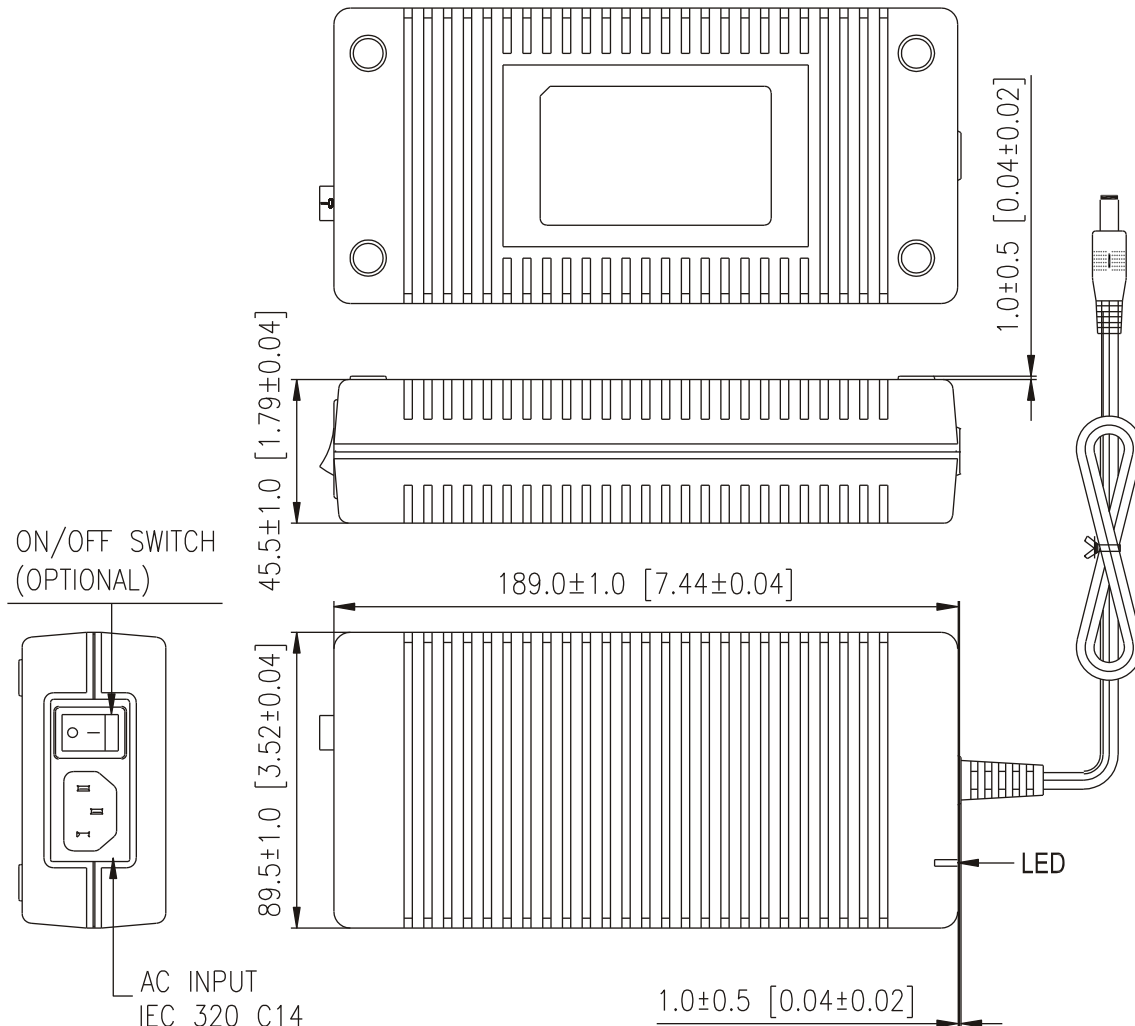
Model Number	Input Voltage Range	Output Voltage	Max. Output Current	Total Regulation	Max. Output Power
DTMPU130-105	90~260VAC	12 VDC	10.84A	5%	130W
DTMPU130-108	90~260VAC	24 VDC	5.42A	3%	130W

### NOTES

1. Model DTMPU130-105 needs to use AWG#16\*5C/4FT output cable and model DTMPU130-24 needs to use AWG#16\*2C/4FT output cable in order to meet the specified regulation and efficiency. The regulation and efficiency will change if a different output cable is used.
  2. Optional output connectors available. Please call factory for more details.
  3. ON/OFF switch is optional.
  4. This product is Listed to applicable standards and requirements by UL.
- \*Due to advances in technology, specifications subject to change without notice.*

### MECHANICAL DRAWING

Unit: mm [inches]





Rev D

**DTMPU130 Series**  
**130 Watt, Single Output**  
**Medical Grade Approvals**  
**AC/DC Desktop Power Supply**

**Wall Industries, Inc.**

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#### 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:

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