



Size: 5.52in x 2.48in x 1.30in (140mm x 63mm x 33mm)

**FEATURES**

- Single Outputs
- 2-Pole AC Inlet: IEC320-C8 Class II
- Universal Input Voltage Range of 90-264VAC
- ITE & Medical Dual Safety Approvals
- Plastic Case with IP41 Level
- Short Circuit, Over Load, and Over Voltage Protection
- High Efficiency Over 89%
- 2 MOPP; Suitable for BF Application
- Meets DOE Level VI & EU Tier 2 Efficiency Requirements
- RoHS Compliant
- UL/c-UL 60601-1 3.1 Edition, TUV EN60601-1 3.1 Edition, CB IEC60601-1 3.1 Edition, UL/c-UL UL60950-1, TUV EN60950-1, CB IEC60950-1, and SGS IEC/EN 60601-1-11 2<sup>nd</sup> Edition Safety Approvals

**DESCRIPTION**

The DTAIM105A series of AC DC desktop power supplies offers up to 110 watts of output power in a 5.52" x 2.48" x 1.30" package. This series consists of single output models with a universal input range of 90-264VAC and output voltages ranging from 12V to 48V. All models are Energy Level VI, EU Tier 2 Efficiency, and RoHS compliant. This series has short circuit, over load, and over voltage protection and also has UL/c-UL 60601-1 3.1 edition, TUV EN60601-1 3.1 edition, CB IEC60601-1 3.1 edition. UL/c-UL UL60950-1, TUV EN60950-1, CB IEC60950-1, and SGS IEC/EN 60601-1-11 2<sup>nd</sup> edition safety approvals. Optional output cables are available per customer's request. Please call factory for order details.

**MODEL SELECTION TABLE**

| Model Number     | Input Voltage Range | Output Voltage | Output Current | Ripple & Noise <sup>(1)</sup> | Output Power | Efficiency Level |
|------------------|---------------------|----------------|----------------|-------------------------------|--------------|------------------|
| DTAIM105A-1Y120N | 90-264VAC           | 12V            | 8.75A          | 150mV                         | 105W         | VI               |
| DTAIM110A-1Y150N |                     | 15V            | 7.34A          | 150mV                         | 110W         | VI               |
| DTAIM110A-1Y190N |                     | 19V            | 5.79A          | 150mV                         | 110W         | VI               |
| DTAIM110A-1Y240N |                     | 24V            | 4.59A          | 150mV                         | 110W         | VI               |
| DTAIM110A-1Y280N |                     | 28V            | 3.93A          | 150mV                         | 110W         | VI               |
| DTAIM110A-1Y360N |                     | 36V            | 3.06A          | 150mV                         | 110W         | VI               |
| DTAIM110A-1Y480N |                     | 48V            | 2.29A          | 150mV                         | 110W         | VI               |

**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           |   | 90                 |     | 264       | VAC    |
| Input Frequency               |   | 47                 |     | 63        | Hz     |
| Input Current (rms)           | @90VAC<br>@264VAC   |                    |     | 2<br>1.25 | A      |
| Inrush Current                | @115VAC, cold start, @25°C<br>@230VAC, cold start, @25°C  |                    |     | 50<br>120 | A peak |
| Power Factor                  | @115VAC @Full Load<br>@230VAC @Full Load                  | 0.95<br>0.90       |     |           |        |
| <b>OUTPUT SPECIFICATIONS</b>  |   |                    |     |           |        |
| Output Voltage                |   | See Table          |     |           |        |
| Regulation                    | 12V, 15V, and 19V models<br>24V, 28V, 36V, and 48V models | -5<br>-3           |     | +5<br>+3  | %      |
| Output Power                  |   | See Table          |     |           |        |
| Output Current                |   | See Table          |     |           |        |
| Ripple & Noise <sup>(1)</sup> |   | See Table          |     |           |        |
| Hold-Up Time                  | @Full Load, 115VAC  |                    | >10 |           | ms     |
| <b>PROTECTION</b>             |   |                    |     |           |        |
| Short Circuit Protection      |   | Automatic Recovery |     |           |        |
| Over Load Protection          |   | Automatic Recovery |     |           |        |
| Over Voltage Protection       |   | Latch Off          |     |           |        |

**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.

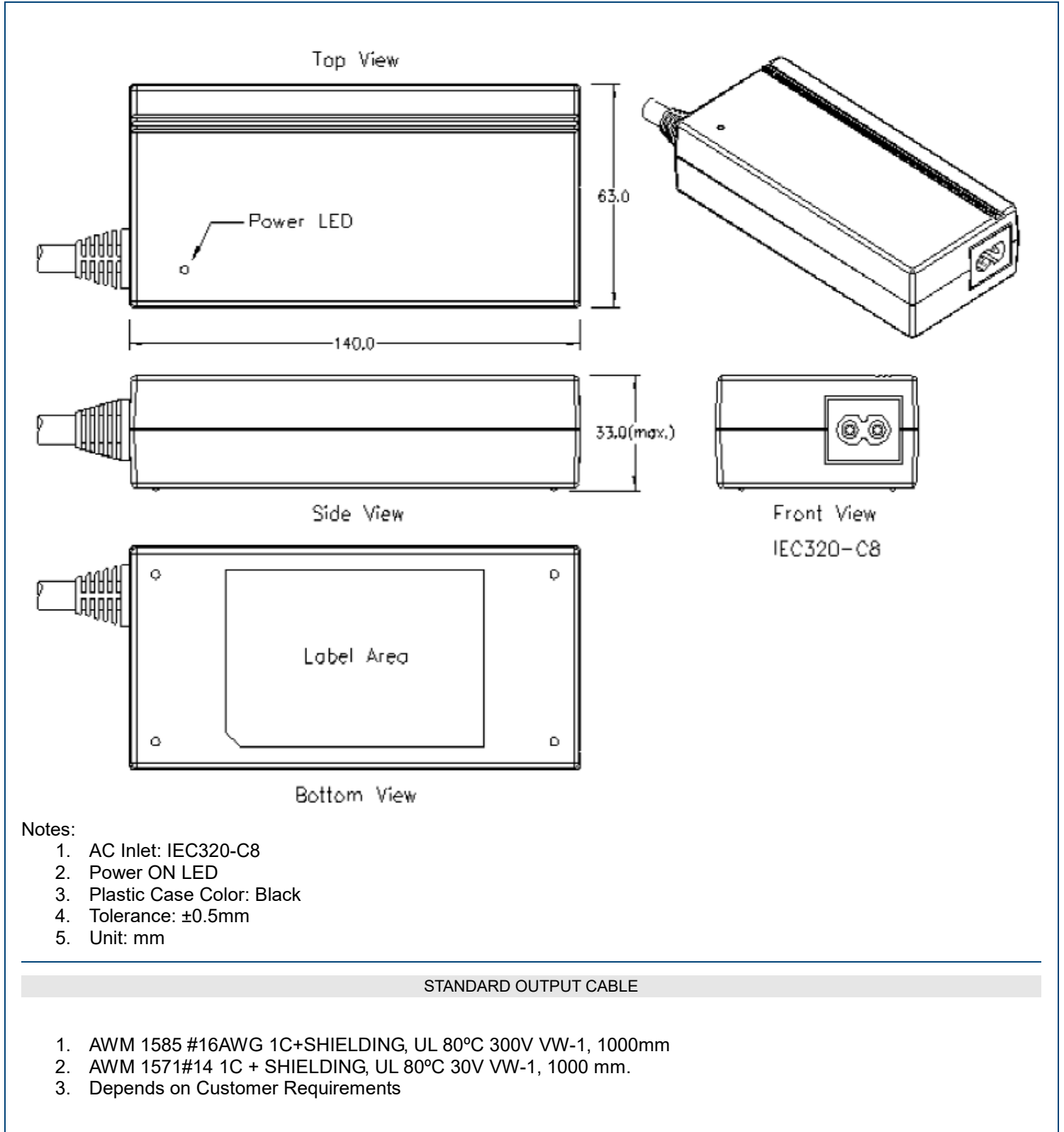
| SPECIFICATION                           | TEST CONDITIONS  | Min     | Typ | Max  | Unit    |
|---|--|---------|-----|--|---------|
| <b>ENVIRONMENTAL SPECIFICATIONS</b>     |  |         |     |  |         |
| Operating Temperature                   | Derate linearly 2.5% per °C from 41 to 60°C                    | -20     |     | +60  | °C      |
| Storage Temperature                     |  | -20     |     | +85  | °C      |
| Humidity                                |  | 0       |     | 95   | %       |
| MTBF                                    | @Full Load and 25°C ambient temperature based on MIL-HDBK-217F | 140,000 |     |  | Hours   |
| <b>GENERAL SPECIFICATIONS</b>           |  |         |     |  |         |
| Efficiency                              | @Average Load, 115/230VAC                                      | 89      |     |  | %       |
| No Load Power Consumption               |  |         |     | 150  | mW      |
| <b>PHYSICAL SPECIFICATIONS</b>          |  |         |     |  |         |
| Weight                                  |  |         |     | 1.72 lbs (0.78kgs)                               |         |
| Dimensions (L x W x H)                  |  |         |     | 5.5in x 2.48in x 1.30in<br>(140mm x 63mm x 33mm) |         |
| Altitude                                |  |         |     | ITE/Medical up to 5000m                          |         |
| AC Inlet                                |  |         |     | IEC320-C8  |         |
| <b>SAFETY &amp; EMC CHARACTERISTICS</b> |  |         |     |  |         |
| Safety Standards                        | UL/cUL UL60601-1 3.1 Edition <sup>(2)</sup>                    |         |     |  |         |
|   | TUV EN60601-1 3.1 Edition                                      |         |     |  |         |
|   | CB IEC60601-1 3.1 Edition                                      |         |     |  |         |
|   | UL/c-UL UL60950-1  |         |     |  |         |
|   | TUV EN60950-1  |         |     |  |         |
|   | CB IEC 60950-1   |         |     |  |         |
|   | SGS IEC/EN 60601-1-11 2 <sup>nd</sup> Edition                  |         |     |  |         |
| EMC Standards                           | EN60601-1-2  |         |     |  |         |
|   | IEC60601-1-2 Ed4:2014  |         |     |  |         |
|   | EN 55011   |         |     |  | Class B |
|   | EN55032  |         |     |  | Class B |
|   | EN55024  |         |     |  | Class B |
|   | FCC Part 15  |         |     |  | Class B |
|   | FCC Part 18  |         |     |  | Class B |
|   | CE   |         |     |  |         |

**NOTES**

- Ripple and noise is measured at oscilloscope 20MHz bandwidth by a 47µF electrolytic capacitor and a 0.1µF ceramic capacitor in parallel at output connector.
- This product is Listed to applicable standards and requirements by UL.

*\*Due to advances in technology, specifications subject to change without notice.*

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](mailto:sales@wallindustries.com)  
Web: [www.wallindustries.com](http://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.