



Rev B

Size: 7.40in x 3.52in x 1.94in (188mm x 89.5mm x 49.3mm)

OPTIONS

Output Connectors

ON/OFF Switch

FEATURES

- Wide Operating Voltage of
- 90~260VAC, 47 to 63Hz
- IEC-320-C14 Input Inlet
- Single Output
- Input to Output: 2MOPP
- Class I

- Over Voltage, Short Circuit, and Over Load Protection
- Optional ON/OFF Switch
- RoHS Compliant
- Medical Safety 3rd (IEC60601-1 3rd Edition)
- ANSI/AAMI ES 60601-1:2005(UL/cUL 3rd Edition), EN 60601-1:2006 (TUV/T-mark 3rd Edition) Safety Approvals

APPLICATIONS

- Patient Monitor
- Blood Pressure SystemPortable Medical Devices
- ECG Machine

DESCRIPTION

The DTHPU180A series of AC DC medical desktop power supplies provides up to 180 watts of output power in a 7.40" x 3.52" x 1.94" package. This series consists of single output models ranging from 12VDC to 48VDC and a wide operating voltage of 90~260VAC. Each model is RoHS compliant and has over voltage, short circuit, and over load protection. This series has an IEC-320-C14 input inlet, medical safety (IEC 60601-1 3rd Edition) approvals, and ANSI/AAMI ES 60601-1:2005(UL/cUL 3rd Edition), EN 60601-1: 2006 (TUV/T-mark 3rd Edition) safety approvals. Please call factory for order details.

| MODEL SELECTION TABLE | | | | | | | | | | |
|-----------------------|------------------------|-------------------|-------------------|---|----------|---------------------|-----------------|------------------------|------------|--|
| Model Number | Input Voltage Range | Output Voltage | Output Current | Ripple & Noise MinMax. Load No-Min. Load | | Total Regulation | Output Power | No Load Consumption | Efficiency | |
| DTHPU180A-105 | 90~260VAC | 12VDC | 14A | 100mVp-p | 120mVp-p | ±5% | 168W | 0.5W | 89% | |
| DTHPU180A-107 | | 19VDC | 9.47A | 100mVp-p | 190mVp-p | ±5% | 180W | 0.5W | 91% | |
| DTHPU180A-108 | | 24VDC | 7.50A | 100mVp-p | 240mVp-p | ±4% | 180W | 0.5W | 91% | |
| DTHPU180A-109 | | 30VDC | 6.00A | 100mVp-p | 300mVp-p | ±3% | 180W | 0.5W | 92% | |
| DTHPU180A-110 | | 33VDC | 5.455A | 100mVp-p | 330mVp-p | ±3% | 180W | 0.5W | 93% | |
| DTHPU180A-111 | | 48VDC | 3.75A | 100mVp-p | 480mVp-p | ±3% | 180W | 0.5W | 93% | |



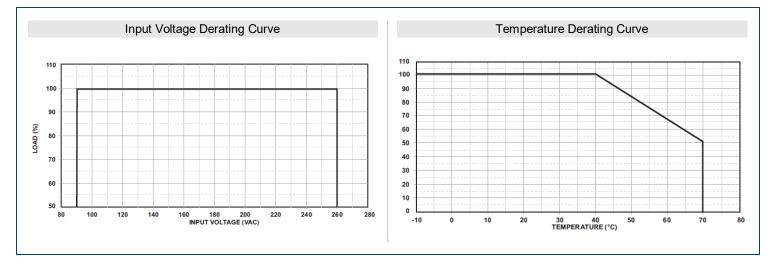
| | nange specifications based on technological a TEST CONDITIONS | Min | Тур | Max | Unit | |
|---|---|---|--|---|--|--|
| | TEST CONDITIONS | IVIIII | тур | IVIAX | Unit | |
| | | 90 | | 260 | VAC | |
| | | 100 | | 240 | VAC | |
| Sine Wave | 47 | | 63 | Hz | | |
| | | | | 112 | | |
| Lowline | Full Load Vin=100VAC | 0.00 | | | | |
| | | | | | A | |
| 0 | · · · · · · · · · · · · · · · · · · · | | | | | |
| | | | | | A | |
| | | 11 | | - | | |
| | | See Table | | | | |
| Full Load, Vin=100~12 | 0VAC or 200~240VAC | 1 | | | % | |
| (3) Full Load, Vin=100~120VAC or 200~240VAC | | | See Table | | | |
| | See Table | | | | | |
| | | | See | Table | | |
| | | | See | Table | | |
| Full Load, Vin=110VAC | | | | 4 | ms | |
| | | 20 | | | ms | |
| , | OVAC | | | 2 | S | |
| All conditions | | -0.04 | | +0.04 | %/°C | |
| | | | | | | |
| | | | Automatic | Recovery | | |
| Recovers automatically | after fault condition is removed | | | 150 | % | |
| | | 112 | | 132 | % | |
| | | | | | | |
| | 0% load at 40°C to 50% load at 70°C | - | | - | °C | |
| 1 | | - | | | °C | |
| Non-Condensing | | - | | | %RH | |
| | | 0 | | | %RH | |
| Voltage All Conditions | | | | _ | kV | |
| | | | | 3000 | m | |
| | | 5 | | 0 | G | |
| | | | | kV | | |
| Contact Discharge, IEC | 561000-4-2 | | E A i O | • | kV | |
| | | | | | | |
| Operating Tomporature | 100.000 | UL9 | 4V-1 | hour | | |
| Operating Temperature | at 25°C, Calculated per MIL-HDBK-217F | 100,000 | | | hours | |
| Full Load Vin=230V/AC | ` | | S00- | Tabla | | |
| | | 50 | 366 | | MΩ | |
| | | 50 | | 4000 | VAC | |
| | | | | | VAC | |
| | | | | | mA | |
| VIII-240VA0, 00H2 | | II | | 0.20 | | |
| | | 31 | 53~33 580 | 7 (894~952 | a) | |
| | 31.53~33.58oz (894~952g) 7.40in x 3.52in x 1.94in | | | | | |
| | | 1 | (188mm x 89.5mm x 49.3mm) | | | |
| | | | | | าm) | |
| | | | | | nm) | |
| ANSI | AAMI ES 60601-1:2005 (UL/cUL 3 rd Edition ⁽⁸⁾ | | | | <u>וm)</u> | |
| ANSI | /AAMI ES 60601-1:2005 (UL/cUL 3 rd Edition ⁽⁸⁾ EN 60601-1:2006 (TUV/T-mark 3 rd Edition) | | | | <u>וווי)</u> | |
| | ^{(AAMI ES 60601-1:2005 (UL/cUL 3rd Edition⁽⁸⁾ EN 60601-1:2006 (TUV/T-mark 3rd Edition) ance to EN55011 (CISPR11), EN61000-3-2, 3} | (188 | mm x 89.5 | | <u>1m)</u> | |
| | Low Line High Line Low Line High Line Full Load, Vin=100~12 Full Load, Vin=110VAC Full Load, Vin=110VAC Full Load, Vin=110VAC Full Load, Vin=100~24 All conditions Recovers automatically Derate linearly from 10 10~95%RH Non-Condensing All Conditions 10~500Hz, 10min./1cyc Air Discharge, IEC6100 Contact Discharge, IEC61 | Low Line Full Load, Vin=100VAC High Line Full Load, Vin=240VAC Low Line Full Load, 25°C, Cool Start, Vin=100VAC High Line Full Load, 25°C, Cool Start, Vin=240VAC Full Load, Vin=100~120VAC or 200~240VAC Full Load, Vin=100~120VAC or 200~240VAC Full Load, Vin=110VAC Full Load, Vin=110VAC Full Load, Vin=100~240VAC All conditions Recovers automatically after fault condition is removed Derate linearly from 100% load at 40°C to 50% load at 70°C 10~95%RH Non-Condensing All Conditions 10~500Hz, 10min./1cycle, 60min. each along X, Y, Z axes Air Discharge, IEC61000-4-2 Contact Discharge, IEC61000-4-2 Operating Temperature at 25°C, Calculated per MIL-HDBK-217F Full Load, Vin=230VAC Primary to Secondary, 500VDC, 25°C/70% RH Primary to Secondary, limit current <10mA | 0.95 Low Line Full Load, Vin=100VAC High Line Full Load, 25°C, Cool Start, Vin=100VAC High Line Full Load, 25°C, Cool Start, Vin=240VAC High Line Full Load, 25°C, Cool Start, Vin=240VAC Full Load, Vin=100~120VAC or 200~240VAC | Low LineFull Load, Vin=100VAC0.95High LineFull Load, 25°C, Cool Start, Vin=100VACLow LineFull Load, 25°C, Cool Start, Vin=240VACHigh LineFull Load, 25°C, Cool Start, Vin=240VACSeeFull Load, Vin=100~120VAC or 200~240VACSeeFull Load, Vin=110VACSeeFull Load, Vin=110VACSeeFull Load, Vin=110VAC20Full Load, Vin=110VAC20Full Load, Vin=100~240VACAutomaticRecovers automatically after fault condition is removed110112112Derate linearly from 100% load at 40°C to 50% load at 70°C-1010~95%RH-40Non-Condensing000All Conditions010-s500Hz, 10min./1cycle, 60min. each along X, Y, Z axes5Air Discharge, IEC61000-4-2Free Air CUL9UL9Operating Temperature at 25°C, Calculated per MIL-HDBK-217F100,000Full Load, Vin=230VACSeePrimary to Secondary, 500VDC, 25°C/70% RH50Primary to Secondary, S00VDC, 25°C/70% RH50Primary to PE, limit current <10mA | Low Line Full Load, Vin=100VAC 1 Ligh Line Full Load, Vin=240VAC 0.9 Low Line Full Load, 25°C, Cool Start, Vin=100VAC 60 High Line Full Load, 25°C, Cool Start, Vin=240VAC 120 Full Load, Vin=100~120VAC or 200~240VAC 1 1 Full Load, Vin=100~120VAC or 200~240VAC 1 1 See Table See Table See Table Full Load, Vin=110VAC 20 4 Full Load, Vin=100~240VAC 110 150 All conditions -0.04 +0.04 Recovers automatically after fault condition is removed 110 150 Non-Condensing 0 95 3000 Non-Condensing 0 95 3000 Non-SolOHz, 10min/1cycle, 60min. each along X, Y, Z axes 5 4 | |

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

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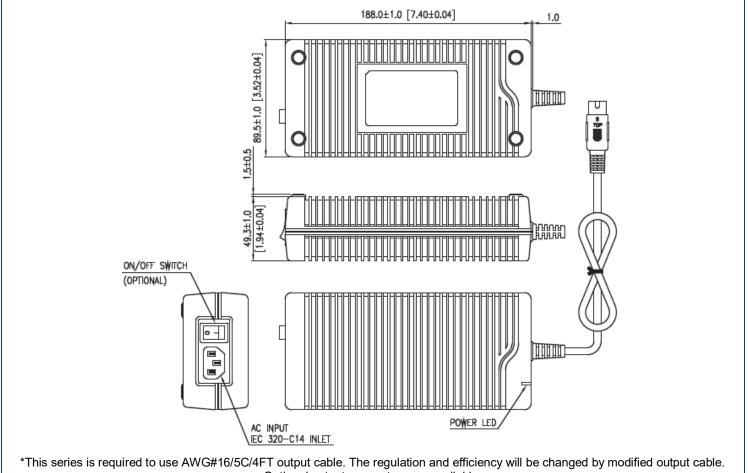


DERATING CURVES ·



Rev B

MECHANICAL DRAWINGS



Optional output connectors are available.





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.

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