

Open Frame (Suffix "O")



Size: 4.00 x 2.00 x 1.16 inches

U-Chassis (Suffix "U")



Size: 4.60 x 2.44 x 1.54 inches

Enclosed Case (Suffix "C")



Size: 4.60 x 2.44 x 1.54 inches

Enclosed w/ External Fan (Suffix "F")



Size: 4.60 x 2.44 x 1.94 inches

Din Rail (Suffix "D")



Size: 4.60in x 2.44in x 1.54in

Din Rail with External Fan (Suffix "DF")



Size: 4.60in x 2.44in x 1.54in



FEATURES

- 85~264VAC (120~370VDC) Input Voltage Range
- Protection Type Class I or Class II
- Active Power Factor Correction
- High Efficiency up to 92%
- Adjustable Output Voltage
- Built-in EMI Filter
- 5000M Operating Altitude
- Low Leakage Current under 100µF
- Low Standby Power Consumption under 0.3W
- -25°C to +80°C Operating Temperature Range
- Up to 150W with 10CFM Forced Air
- 4000VAC Input to Output 2 MOPP Insulation
- Over Voltage, Over Load, and Short Circuit Protection
- Designed to Meet Energy Efficiency Level VI
- Compliant to RoHS EU Directive 2011/65/EU
- CE Marked
- ANSI/AAMI ES60601-1, EN60601-1, and IEC60601-1 3.1 Edition Medical Approvals
- Open Frame, U-Chassis, Enclosed Case, Enclosed Case with External Fan, DIN Rail and DIN Rail with External Fan Mechanical Options

APPLICATIONS

- Medical
- Automation
- Datacom
- IPC
- Industrial
- Measurement
- Telecom

DESCRIPTION

The PSMAF150 series of AC/DC medical power supplies provides up to 150 Watts of output power with 10CFM forced air and up to 110 Watts with convection cooling in a compact 2 x 4 inch footprint. These supplies feature a universal 85-264VAC (120~370 VDC) input, enabling them to be used anywhere in the world. The off load power draw is less than 0.3 Watts, which complies with many energy-saving initiatives. 12V, 15V, 18V, 24V, 28V, 36V, and 48VDC single output voltages are available for this series, all of which have a $\pm 10\%$ adjustment range. These supplies also feature a low leakage current of less than 100µA at 264VAC and are designed to withstand 4000VAC, input to output. The PSMAF150 series has an operating temperature range of -25°C to +80°C, power factor correction, and a high efficiency up to 92%. These supplies are also protected against short circuit, over voltage, and over current conditions. The PSMAF150 series has ANSI/AAMI ES60601-1, EN60601-1, and IEC60601-1 3.1 edition medical approvals, are CE Marked, are designed to meet Efficiency Level VI and meet the conducted and radiated EMI requirements of EN55011, EN55022 and FCC Part 18. Open frame, U-chassis, enclosed case, enclosed case with external fan, Din Rail and DIN rail with external fan mechanical options are available. Class I and Class II protection types are also available.

MODEL SELECTION TABLE

| Model Number ⁽¹⁾ | Input Voltage | Output Voltage | Output Current | | Ripple & Noise | Output Power | | Efficiency |
|-----------------------------|---------------------------------|----------------|------------------|------------|----------------|------------------|------------|------------|
| | | | 10CFM Forced Air | Convection | | 10CFM Forced Air | Convection | |
| PSMAF150-12S-O | 85 - 264 VAC (120 - 370 VDC) | 12VDC | 12.5A | 8.34A | 120mVp-p | 150W | 100W | 91% |
| PSMAF150-15S-O | | 15VDC | 10A | 7.34A | 150mVp-p | 150W | 110W | 92% |
| PSMAF150-18S-O | | 18VDC | 8.34A | 6.12A | 180mVp-p | 150W | 110W | 92% |
| PSMAF150-24S-O | | 24VDC | 6.25A | 4.59A | 220mVp-p | 150W | 110W | 92% |
| PSMAF150-28S-O | | 28VDC | 5.36A | 3.93A | 220mVp-p | 150W | 110W | 92% |
| PSMAF150-36S-O | | 36VDC | 4.17A | 3.06A | 250mVp-p | 150W | 110W | 92% |
| PSMAF150-48S-O | | 48VDC | 3.13A | 2.09A | 250mVp-p | 150W | 100W | 92% |
| PSMAF150-12S-U | 85 - 264 VAC (120 - 370 VDC) | 12VDC | 12.5A | 8.34A | 120mVp-p | 150W | 100W | 91% |
| PSMAF150-15S-U | | 15VDC | 10A | 7.34A | 150mVp-p | 150W | 110W | 92% |
| PSMAF150-18S-U | | 18VDC | 8.34A | 6.12A | 180mVp-p | 150W | 110W | 92% |
| PSMAF150-24S-U | | 24VDC | 6.25A | 4.59A | 220mVp-p | 150W | 110W | 92% |
| PSMAF150-28S-U | | 28VDC | 5.36A | 3.93A | 220mVp-p | 150W | 110W | 92% |
| PSMAF150-36S-U | | 36VDC | 4.17A | 3.06A | 250mVp-p | 150W | 110W | 92% |
| PSMAF150-48S-U | | 48VDC | 3.13A | 2.09A | 250mVp-p | 150W | 100W | 92% |
| PSMAF150-12S-C | 85 - 264 VAC (120 - 370 VDC) | 12VDC | 12.5A | 10.84A | 120mVp-p | 150W | 100W | 91% |
| PSMAF150-15S-C | | 15VDC | 10A | 9A | 150mVp-p | 150W | 110W | 92% |
| PSMAF150-18S-C | | 18VDC | 8.34A | 7.5A | 180mVp-p | 150W | 110W | 92% |
| PSMAF150-24S-C | | 24VDC | 6.25A | 5.63A | 220mVp-p | 150W | 110W | 92% |
| PSMAF150-28S-C | | 28VDC | 5.36A | 4.83A | 220mVp-p | 150W | 110W | 92% |
| PSMAF150-36S-C | | 36VDC | 4.17A | 3.75A | 250mVp-p | 150W | 110W | 92% |
| PSMAF150-48S-C | | 48VDC | 3.13A | 2.71A | 250mVp-p | 150W | 100W | 92% |
| PSMAF150-12S-F | 85 - 264 VAC (120 - 370 VDC) | 12VDC | 12.5A | 10.84A | 120mVp-p | 150W | 100W | 91% |
| PSMAF150-15S-F | | 15VDC | 10A | 9A | 150mVp-p | 150W | 110W | 92% |
| PSMAF150-18S-F | | 18VDC | 8.34A | 7.5A | 180mVp-p | 150W | 110W | 92% |
| PSMAF150-24S-F | | 24VDC | 6.25A | 5.63A | 220mVp-p | 150W | 110W | 92% |
| PSMAF150-28S-F | | 28VDC | 5.36A | 4.83A | 220mVp-p | 150W | 110W | 92% |
| PSMAF150-36S-F | | 36VDC | 4.17A | 3.75A | 250mVp-p | 150W | 110W | 92% |
| PSMAF150-48S-F | | 48VDC | 3.13A | 2.71A | 250mVp-p | 150W | 100W | 92% |
| PSMAF150-12S-D | 85 - 264 VAC (120 - 370 VDC) | 12VDC | 12.5A | 10.84A | 120mVp-p | 150W | 100W | 91% |
| PSMAF150-15S-D | | 15VDC | 10A | 9A | 150mVp-p | 150W | 110W | 92% |
| PSMAF150-18S-D | | 18VDC | 8.34A | 7.5A | 180mVp-p | 150W | 110W | 92% |
| PSMAF150-24S-D | | 24VDC | 6.25A | 5.63A | 220mVp-p | 150W | 110W | 92% |
| PSMAF150-28S-D | | 28VDC | 5.36A | 4.83A | 220mVp-p | 150W | 110W | 92% |
| PSMAF150-36S-D | | 36VDC | 4.17A | 3.75A | 250mVp-p | 150W | 110W | 92% |
| PSMAF150-48S-D | | 48VDC | 3.13A | 2.71A | 250mVp-p | 150W | 100W | 92% |
| PSMAF150-12S-DF | 85 - 264 VAC (120 - 370 VDC) | 12VDC | 12.5A | 10.84A | 120mVp-p | 150W | 100W | 91% |
| PSMAF150-15S-DF | | 15VDC | 10A | 9A | 150mVp-p | 150W | 110W | 92% |
| PSMAF150-18S-DF | | 18VDC | 8.34A | 7.5A | 180mVp-p | 150W | 110W | 92% |
| PSMAF150-24S-DF | | 24VDC | 6.25A | 5.63A | 220mVp-p | 150W | 110W | 92% |
| PSMAF150-28S-DF | | 28VDC | 5.36A | 4.83A | 220mVp-p | 150W | 110W | 92% |
| PSMAF150-36S-DF | | 36VDC | 4.17A | 3.75A | 250mVp-p | 150W | 110W | 92% |
| PSMAF150-48S-DF | | 48VDC | 3.13A | 2.71A | 250mVp-p | 150W | 100W | 92% |

SPECIFICATIONS: PSMAF150 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 | Typ | Max | Unit |
|-------------------------------|--|------------------|--------------------------------|--|-----|-----|-------|--------|
| INPUT SPECIFICATIONS | | | | | | | | |
| Operating Input Voltage Range | AC input | | 85 | | | | 264 | VAC |
| | DC input | | 120 | | | | 370 | VDC |
| Input Frequency | AC input | | 47 | | | | 63 | Hz |
| Input Current | 115VAC and full load | | | | | | 1.7 | A |
| | 230VAC and full load | | | | | | 0.8 | |
| No load Input Power | @230VAC, With Fan Option | | | | 0.6 | | | W |
| | @230VAC, Other Models | | | | | | 0.3 | |
| Power Factor | | | 0.95 | | | | | |
| Input Inrush Current | 230VAC | | | | | | 60 | A |
| Input Protection | Internal fuse in line and neutral | | T3.15A / 250VAC | | | | | |
| OUTPUT SPECIFICATIONS | | | | | | | | |
| Output Voltage | | | See Table | | | | | |
| Initial Set Voltage Accuracy | 230VAC and full load | | -1.0 | | | | +1.0 | % |
| Line Regulation | Low line to high line at full load | | -0.2 | | | | +0.2 | % |
| Load Regulation | No load to full load | | -0.5 | | | | +0.5 | % |
| | 10% load to 90% load | | -0.4 | | | | +0.4 | |
| Voltage Adjustability | | | -10 | | | | +10 | % |
| Output Power | 10CFM forced air cooling | | | | | | 150 | W |
| | Convection cooling for 15V, 18V, 24V, 28V, and 36V output models | | | | | | 110 | |
| | Convection cooling for 12V and 48V output models | | | | | | 100 | |
| Output Current | | | See Table | | | | | |
| Minimum Load | | | | | 0 | | | % |
| Ripple & Noise (20MHz BW) | With 1µF/25V 1206 X7R MLCC capacitor | 12V output model | | | 120 | | | mVp-p |
| | With 1µF/25V 1206 X7R MLCC capacitor | 15V output model | | | 150 | | | |
| | With 1µF/25V 1206 X7R MLCC capacitor | 18V output model | | | 180 | | | |
| | With 1µF/50V 1206 X7R MLCC capacitor | 24V output model | | | 220 | | | |
| | With 1µF/50V 1206 X7R MLCC capacitor | 28V output model | | | 220 | | | |
| | With 1µF/50V 1206 X7R MLCC capacitor | 36V output model | | | 250 | | | |
| | With 0.1µF/100V 1206 X7R MLCC capacitor | 48V output model | | | 250 | | | |
| Transient Response | Load step from 50~75% change at 2.5A/µs | Peak Deviation | | | | | 3 | % Vout |
| | | Recovery Time | | | 500 | | | µs |
| Start-Up Time | | | | | | | 1000 | ms |
| Rise Time | | | | | 20 | | | ms |
| Hold-up Time | 115VAC and full load | | 16 | | | | | ms |
| Temperature Coefficient | | | -0.02 | | | | +0.02 | %/°C |
| Fan Power Supply | | | 12V at 500mA | | | | | |
| PROTECTION | | | | | | | | |
| Over Voltage Protection | % of Vout (nom); latch mode | | 115 | | | | 135 | % |
| Over Load Protection | % of Iout rated; hiccup mode | | 115 | | | | 150 | % |
| Short Circuit Protection | | | Continuous, automatic recovery | | | | | |
| GENERAL SPECIFICATIONS | | | | | | | | |
| Switching Frequency | | | | | 60 | | | kHz |
| Isolation Voltage | 1 minute (2MOPP insulation) | Input to Output | 4000 | | | | | VAC |
| | | Input to FG | 1500 | | | | | |
| | | Output to FG | 1500 | | | | | |
| Isolation Resistance | 500VDC | | 0.1 | | | | | GΩ |
| Leakage Current | 264VAC | | | | | | 100 | µA |

SPECIFICATIONS: PSMAF150 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 | Typ | Max | Unit |
|-------------------------------------|--|---------------------------|-----------|---|------------------|
| ENVIRONMENTAL SPECIFICATIONS | | | | | |
| Operating Ambient Temperature | 10CFM forced air cooled: 150W (with derating) | -25 | | +80 | °C |
| | Convection cooled: 100~110W (with derating) | -25 | | +85 | |
| Storage Temperature Range | 10CFM forced air cooled: 150W (with derating) | -40 | | +75 | °C |
| | Convection cooled: 100~110W (with derating) | -40 | | +85 | |
| Operating Altitude | | | | 5000 meters | |
| Shock | | | | IEC68-2-27 | |
| Thermal Shock | | | | MIL-STD-810F | |
| Vibration | | | | IEC68-2-6 | |
| Relative Humidity | Non-condensing | 5 | | 95 | % RH |
| MTBF | MIL-HDBK-217F, Ta=25°C, full load | 786,100 | | | Hours |
| PHYSICAL SPECIFICATIONS | | | | | |
| Weight | Open Frame Models (Suffix "-O") | | | 6.60oz (187g) | |
| | U-Chassis Models (Suffix "-U") | | | 8.29oz (235g) | |
| | DIN Rail (Suffix "-D") | | | 9.81oz (278g) | |
| | Enclosed Case Models (Suffix "-C") | | | 9.03oz (256g) | |
| | Enclosed Case with External Fan Models (Suffix "-F") | | | 9.03oz (256g) | |
| Dimensions (L x W x H) | Open Frame Models (Suffix "-O") | | | 4.00 x 2.00 x 1.16 inches (101.6 x 50.8 x 29.5 mm) | |
| | U-Chassis (Suffix "-U"), Enclosed Case (Suffix "-C") & DIN Rail (Suffix "-D") Models | | | 4.60 x 2.44 x 1.54 inches (116.8 x 62.0 x 39.2 mm) | |
| | Enclosed Case with External Fan (Suffix "-F") & DIN Rail with External Fan (Suffix "-DF") Models | | | 4.60 x 2.44 x 1.94 inches (116.8 x 62.0 x 49.2 mm) | |
| | | | | | |
| Safety Approvals ⁽⁴⁾ | IEC60601-1 Version 3.1, EN/ANSI/AAMI ES 60601-1 IEC/EN/UL 60950-1 | | | | CB:UL(Demko) |
| EMI ⁽³⁾ | EN55011, EN 55032, EN60601-1-2 and FCC Part 18/15 | | Conducted | | Class B |
| | | | Radiated | | Class A |
| Harmonic Currents | EN61000-3-2 | Full load | | | Class A and D |
| Voltage Flicker | EN61000-3-3 | | | | |
| EMS | EN55024 and EN60601-1-2 | | | | |
| ESD | EN61000-4-2 | Air±15kV and Contact ±8kV | | | Perf. Criteria A |
| Radiated Immunity | EN61000-4-3 | 20 V/m | | | Perf. Criteria A |
| Fast Transient | EN61000-4-4 | ±2kV | | | Perf. Criteria A |
| Surge | EN61000-4-5 | DM ±1kV and CM ±2kV | | | Perf. Criteria A |
| Conducted Immunity | EN61000-4-6 | 20 Vr.m.s | | | Perf. Criteria A |
| Power Frequency Magnetic Field | EN61000-4-8 | 10 A/m | | | Perf. Criteria A |
| Dip and Interruptions | EN61000-4-11 | | | | |

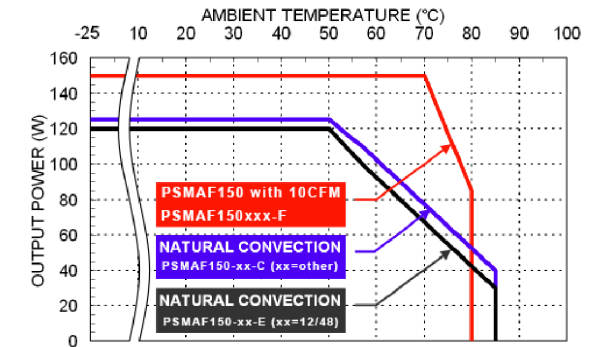
NOTES

- The "X" in the model number represents the package type. It can be "O" for open frame, "U" for U-chassis, "C" for enclosed case, "F" for enclosed case with external fan, "D" for DIN rail or "DF" for DIN rail with external fan. DIN rail is only available for enclosed case type models.
- Class I and Class II protection types are also available for this series. Class I comes standard and for Class II add the suffix "B" to the model number.
- External components may be required for class I application.
- This product is Listed to applicable standards and requirements by UL.

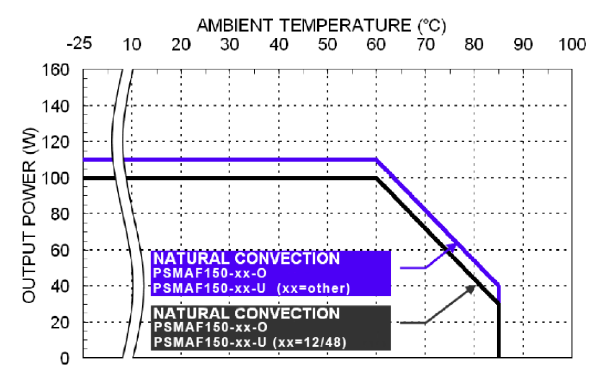
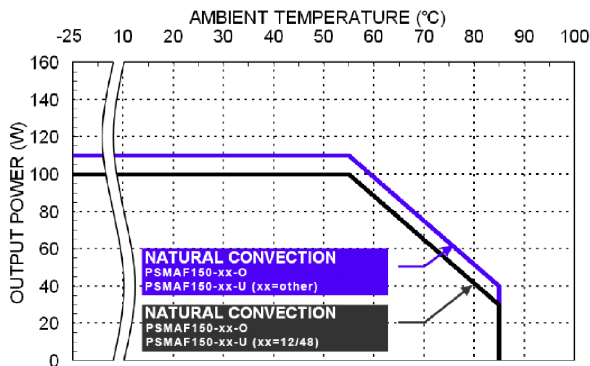
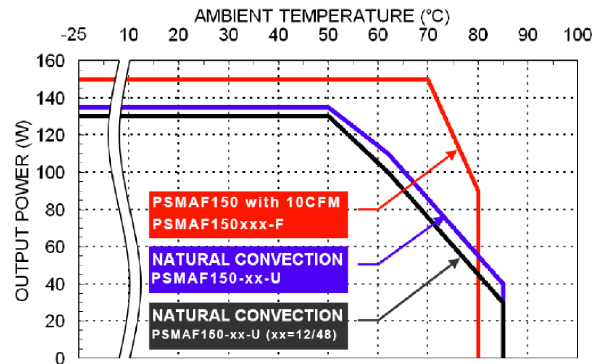
*Due to advances in technology, specifications subject to change without notice.

DERATING CURVES

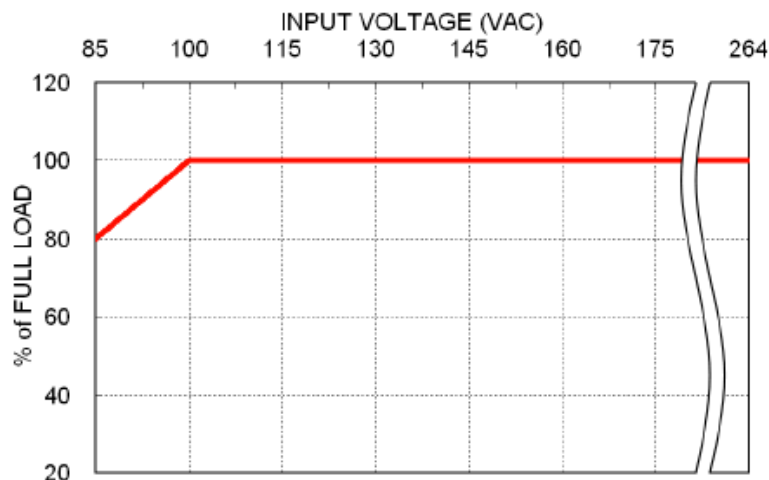
Derating Curve vs Ambient Temperature
Vin=115VAC



Derating Curve vs. Ambient Temperature
Vin=230VAC

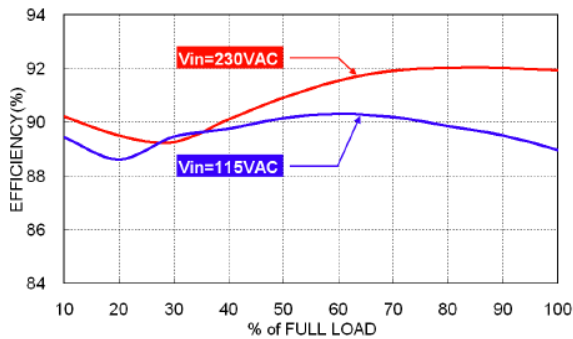


Derating Curve vs. Input Voltage

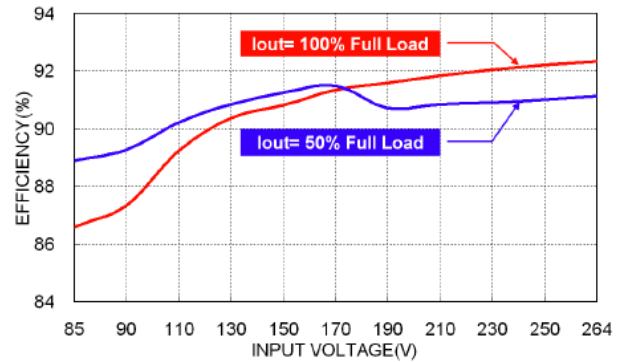


EFFICIENCY CURVES

Efficiency vs. Output Load
PSMAF150-24S-x

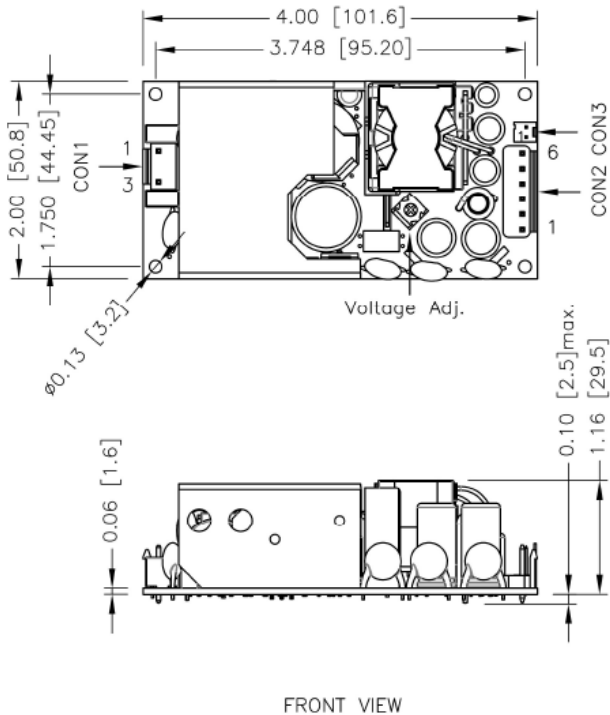


Efficiency vs. Input Voltage
PSMAF150-24S-x



MECHANICAL DRAWINGS

OPEN FRAME (SUFFIX "-O")



Connectors

CON1-Input Connector

| | |
|-------|---------|
| Pin 1 | Line |
| Pin 3 | Neutral |

CON2-Output Connector

| | |
|-----------|-------|
| Pin 1,2,3 | -Vout |
| Pin 4,5,6 | +Vout |

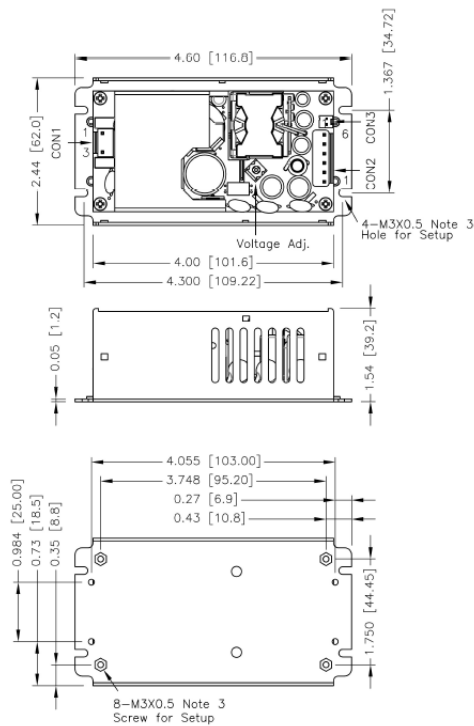
CON3-Fan Connector

| | |
|-------|------|
| Pin 1 | -Fan |
| Pin 2 | +Fan |

Mates with
Molex housing: 22-01-1022
Molex crimp terminals: 2759

*Either one of four screw holes of Open/Chassis type can be considered as PE connection for CLASS I application

U-CHASSIS (SUFFIX "-U")



Connectors

CON1-Input Connector

| | |
|-------|---------|
| Pin 1 | Line |
| Pin 3 | Neutral |

CON2-Output Connector

| | |
|-----------|-------|
| Pin 1,2,3 | -Vout |
| Pin 4,5,6 | +Vout |

CON3-Fan Connector

| | |
|-------|------|
| Pin 1 | -Fan |
| Pin 2 | +Fan |

Mates with
Molex housing: 22-01-1022
Molex crimp terminals: 2759

*Either one of four screw holes of Open/Chassis type can be considered as PE connection for CLASS I application.

Notes:

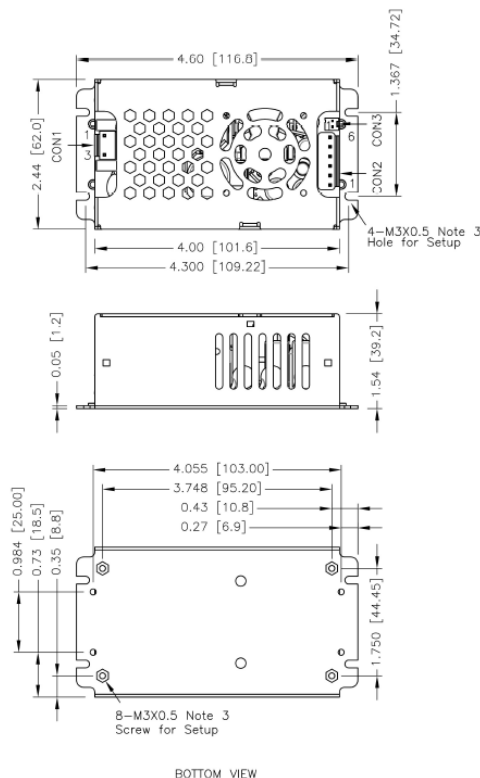
All dimensions in inch [mm]

Tolerance: x.xx±0.02 [x.x±0.5]

x.xxx±0.01 [x.xx±0.25]

M3x0.5 screw locked torque MAX 5Kgf.cm/0.49N.m

ENCLOSED CASE (SUFFIX "-C")



Connectors

CON1-Input Connector

| | |
|-------|---------|
| Pin 1 | Line |
| Pin 3 | Neutral |

CON2-Output Connector

| | |
|-----------|-------|
| Pin 1,2,3 | -Vout |
| Pin 4,5,6 | +Vout |

CON3-Fan Connector

| | |
|-------|------|
| Pin 1 | -Fan |
| Pin 2 | +Fan |

Mates with
Molex housing: 22-01-1022
Molex crimp terminals: 2759

*Either one of four screw holes of Open/Chassis type can be considered as PE connection for CLASS I application.

Notes:

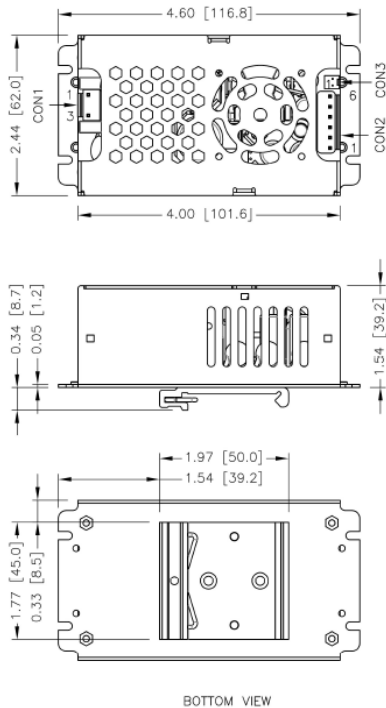
All dimensions in inch [mm]

Tolerance: x.xx±0.02 [x.x±0.5]

x.xxx±0.01 [x.xx±0.25]

M3x0.5 screw locked torque MAX 5Kgf.cm/0.49N.m

DIN RAIL (SUFFIX "-D")



Connectors

CON1-Input Connector

| | |
|-------|---------|
| Pin 1 | Line |
| Pin 3 | Neutral |

CON2-Output Connector

| | |
|-----------|-------|
| Pin 1,2,3 | -Vout |
| Pin 4,5,6 | +Vout |

CON3-Fan Connector

| | |
|-------|------|
| Pin 1 | -Fan |
| Pin 2 | +Fan |

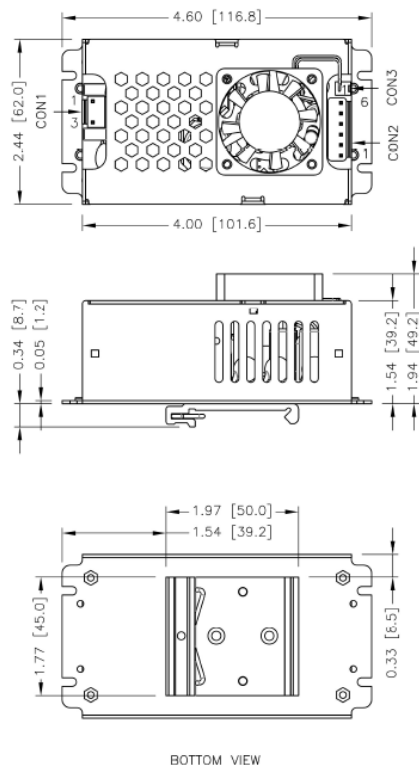
Mates with

Molex housing: 22-01-1022

Molex crimp terminals: 2759

*Either one of four screw holes of Open/Chassis type can be considered as PE connection for CLASS I application

DIN RAIL WITH FAN (SUFFIX "-DF")



Connectors

CON1-Input Connector

| | |
|-------|---------|
| Pin 1 | Line |
| Pin 3 | Neutral |

CON2-Output Connector

| | |
|-----------|-------|
| Pin 1,2,3 | -Vout |
| Pin 4,5,6 | +Vout |

CON3-Fan Connector

| | |
|-------|------|
| Pin 1 | -Fan |
| Pin 2 | +Fan |

Mates with

Molex housing: 22-01-1022

Molex crimp terminals: 2759

*Either one of four screw holes of Open/Chassis type can be considered as PE connection for CLASS I application

Notes:

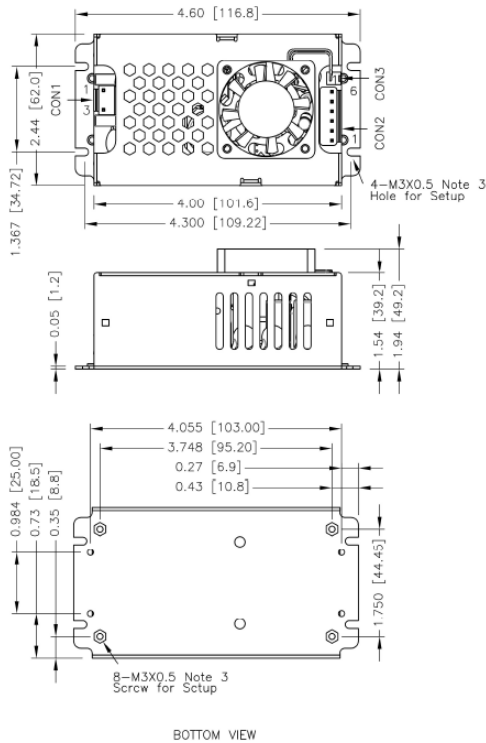
All dimensions in inch [mm]

Tolerance: x.xx±0.02 [x.x±0.5]

x.xxx±0.01 [x.xx±0.25]

M3x0.5 screw locked torque MAX 5Kgf.cm/0.49N.m

ENCLOSED WITH FAN (SUFFIX "-F")



Connectors

CON1-Input Connector

| | |
|-------|---------|
| Pin 1 | Line |
| Pin 3 | Neutral |

CON2-Output Connector

| | |
|-----------|-------|
| Pin 1,2,3 | -Vout |
| Pin 4,5,6 | +Vout |

CON3-Fan Connector

| | |
|-------|------|
| Pin 1 | -Fan |
| Pin 2 | +Fan |

Mates with
Molex housing: 22-01-1022
Molex crimp terminals: 2759

*Either one of four screw holes of Open/Chassis type can be considered as PE connection for CLASS I application

Notes:

All dimensions in inch [mm]
Tolerance: x.xx±0.02 [x.x±0.5]
x.xxx±0.01 [x.xx±0.25]
M3x0.5 screw locked torque MAX 5Kgf.cm/0.49N.m

CONNECTOR OPTIONS

Blank: JST Type



Mates with housing
CON1: VHR-3N
CON2: VHR-6N

Crimp Terminals
CON1: SVH-21T-P1.1
CON2: SVH-21T-P1.1

-M: Molex Type



Mates with housing
CON1: 09-50-8031
CON2: 09-50-8041

Crimp Terminals
CON1: SD-2478
CON2: SD-2478

-T: Terminal Block



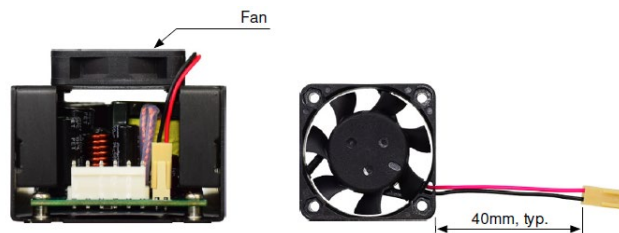
Screw locked torque
MAX 2Kgf.cm/0.2N.m

Wire dimension range
26~16AWG

EXTERNAL FAN OPTION

External fan is optional for enclosed and DIN Rail models. The fan's life is shorter than the power supply's and has a shorter warranty. Please contact factory for more details.

Fan dimensions: 40mm x 40mm x 10mm
Air flow: 7CFM



MODEL NUMBER SETUP

| PSMAF | 150 | - | 12 | S | - | O | B | M |
|-------------|------------------|---|--|-------------------------|---|--|--|---|
| Series Name | Output Power | | Input Voltage | Output Quantity | | Package Type | Protection Type | Connector Type |
| | 150: 150W | | 12: 12 VDC 15: 15 VDC 24: 24 VDC 28: 28 VDC 36: 36 VDC 48: 48 VDC | S: Single Output | | O: Open Frame U: U-Chassis C: Enclosed Case F: Enclosed with External Fan D: DIN Rail ⁽¹⁾ DF: Din Rail with External Fan | None: Class I B: Class II | None: JST Type M: Molex Type T: Terminal Block |

(1) DIN Rail is only available for enclosed case models

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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