

Rev C

Open Frame (Suffix "-O")

FEATURES

Size: 4.00 x 2.00 x 1.14 in

U-Chassis (Suffix "-U")



RoHS Compliant

- Single Outputs
- PF > 0.9 at 115/230VAC
- 100 Watts with Convection Cooling
 UL60950-1, Nemko EN60950-1, & CB IEC60950-1 Safety Approvals
- 150 Watts with Forced Air Cooling 100% Burn-in and Hi-pot Tested
- 90~264 VAC Input Voltage Range
 Open Frame and U-Chassis Mechanical Options Available

• MTBF > 100,000 Hours

• High Efficiency up to 85%

• Over Voltage, Over Load, and Short Circuit Protection

DESCRIPTION

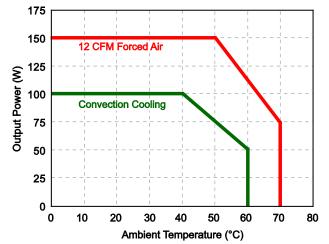


The PSPW150 series of AC/DC power supplies provides 100 Watts of output power with convection cooling and 150 Watts with 12CFM forced airflow. This series consists of 12V, 15V, 19V, 24V, 28V, and 48VDC single output models with a 90-264VAC full range input which enables them to be used anywhere in the world. These supplies also feature a high efficiency up to 85% and a power factor > 0.9 at 115/230VAC. These supplies are also protected against short circuit, over voltage, and over load conditions. The PSPW150 series has UL60950-1, CSA-C22.2 NO.950-1, Nemko EN60950-1, and CB IEC60950-1 safety approvals. This series is also CE marked and meets EN55022 Class B, CISPR22 Class B, and FCC Part 15 Class B EMC standards. Both open frame and U-chassis mechanical options are available for this series.

| Sizo | 4.12 x 2.24 x 1.38 in |
|-------|--------------------------|
| Size. | 4. I Z X Z.Z4 X I.JO III |

| MODEL SELECTION TABLE | | | | | | | | | |
|-------------------------------|-----------------|----------------|------------|----------------------|------------|----------------------|----------------|------------|---------------------|
| Model Number Input Voltage | Output | Output Current | | Output Power | | | Output | Package | |
| | r i i | Voltage | Convection | 12 CFM Forced Air | Convection | 12 CFM Forced Air | Ripple & Noise | Regulation | Туре |
| PSPW150B-1Y12-O | 90 - 264 VAC | 12 VDC | 8.33A | 12.5A | 100W | 150W | 150mVp-p | ±3% | |
| PSPW150B-1Y15-O | | 15 VDC | 6.67A | 10A | 100W | 150W | 150mVp-p | ±3% | |
| PSPW150B-1Y19-O | | 19 VDC | 5.26A | 7.89A | 100W | 150W | 190mVp-p | ±3% | Олоп Б лонос |
| PSPW150B-1Y24-O | | 24 VDC | 4.16A | 6.25A | 100W | 150W | 240mVp-p | ±3% | Open Frame |
| PSPW150B-1Y28-O | | 28 VDC | 2.77A | 4.16A | 100W | 150W | 300mVp-p | ±2% | |
| PSPW150B-1Y48-O | | 48 VDC | 2.08A | 3.12A | 100W | 150W | 300mVp-p | ±2% | |
| PSPW150B-1Y12-U | | 12 VDC | 8.33A | 12.5A | 100W | 150W | 150mVp-p | ±3% | |
| PSPW150B-1Y15-U | | 15 VDC | 6.67A | 10A | 100W | 150W | 150mVp-p | ±3% | |
| PSPW150B-1Y19-U | 90 - 264 VAC | 19 VDC | 5.26A | 7.89A | 100W | 150W | 190mVp-p | ±3% | |
| PSPW150B-1Y24-U | | 24 VDC | 4.16A | 6.25A | 100W | 150W | 240mVp-p | ±3% | U-Chassis |
| PSPW150B-1Y28-U | | 28 VDC | 2.77A | 4.16A | 100W | 150W | 300mVp-p | ±2% | |
| PSPW150B-1Y48-U | | 48 VDC | 2.08A | 3.12A | 100W | 150W | 300mVp-p | ±2% | |

DERATING CURVE



Convection Cooling:

0 to +60°C derating linearly 2.5% per °C from +41°C to +60°C

12CFM Forced Air:

0 to +70°C derating linearly 2.5% per °C from +51°C to +70°C



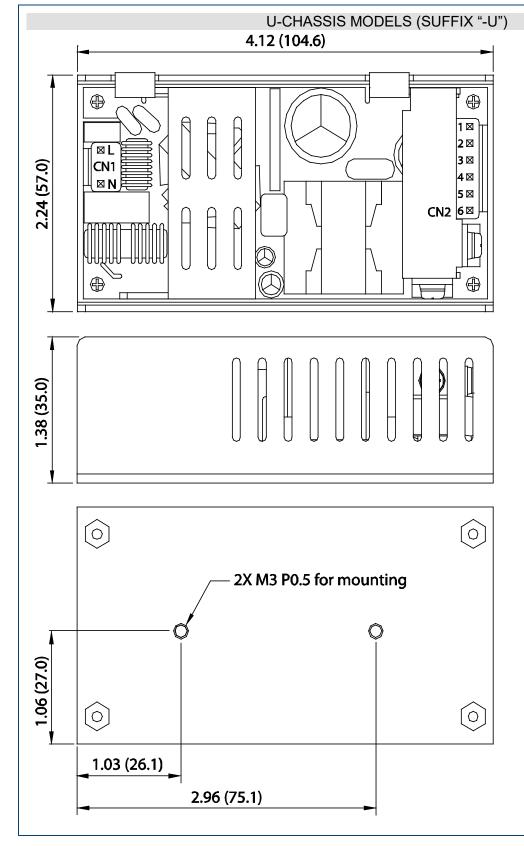
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| 7.27oz (206g) | | | |
| 9.70oz (275g) | | | |
| 4.00 x 2.00 x 1.14 in (101.6 x 50.8 x 29.0 mm) | | | |
| 4.12 x 2.25 x 1.38 in (104.6 x 57.0 x 35.0 mm) | | | |
| | | | |
| CB IEC60 | 0950-1 | | |
| EN55022 Class B, CISPR22 Class B, FCC Part 15 Class B, C | | | |
| | ery 60 ery 60 70 85 95 95 50.8 x 29 57.0 x 35 CB IEC6 | | |

NOTES 1. This product is Listed to applicable standards and requirements by UL. *Due to advances in technology, specifications subject to change without notice.

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MECHANICAL DRAWING



Unit: inches (mm)

| CN1: INPUT CONNECTOR | | |
|----------------------|----------|--|
| Pin No. | Function | |
| 1 | AC (N) | |
| 2 | AC (L) | |

JST B3P-VH-B pitch: 7.92mm or equivalent, mates with JST VHR-3N or equivalent

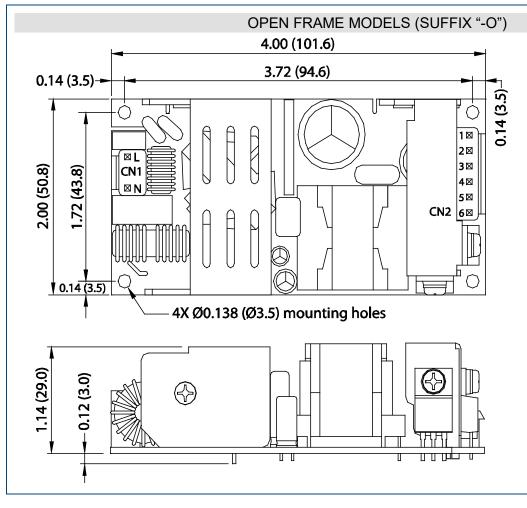
| CN2: OUTPUT CONNECTOR | | |
|-----------------------|----------|--|
| Pin No. | Function | |
| 1 | GND | |
| 2 | GND | |
| 3 | GND | |
| 4 | +Vo | |
| 5 | +Vo | |
| 6 | +Vo | |

JST B6P-VH-B pitch: 3.96mm or equivalent, mates with JST VHR-6N or equivalent

Rev C



MECHANICAL DRAWING



Unit: inches (mm)

| CN1: INPUT CONNECTOR | | |
|----------------------|----------|--|
| Pin No. | Function | |
| 1 | AC (N) | |
| 2 | AC (L) | |

JST B3P-VH-B pitch: 7.92mm or equivalent, mates with JST VHR-3N or equivalent

| CN2: OUTPUT CONNECTOR | | |
|-----------------------|----------|--|
| Pin No. | Function | |
| 1 | GND | |
| 2 | GND | |
| 3 | GND | |
| 4 | +Vo | |
| 5 | +Vo | |
| 6 | +Vo | |

JST B6P-VH-B pitch: 3.96mm or equivalent, mates with JST VHR-6N or equivalent

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.

Rev C

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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