Wall Industries, Inc.

# PSM Series
## Open Frame
## 40~65 Watts Single Output
## AC/DC Medical Power Supply

## FEATURES

- **Open Frame**
- **Single Output**
- **Universal AC Input: 90~264VAC**
- **Output Voltages from 5 to 52VDC**
- **Over Voltage/ Over Load/ Short Circuit Protected**
- **4(L) x 2(W) x 1.18(H) inches (101.6 x 50.8 x 30 mm)**



| SPECIFICATIONS: *PSM Series* | |
|---|---|
| All specifications are based on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted.<br>We reserve the right to change specifications based on technological advances. | |
| **INPUT SPECIFICATIONS** | |
| Input Voltage | 90 – 264VAC |
| Input Frequency | 47 to 63Hz |
| Input Current | 2A(rms) @ 115VAC |
| Inrush Current | < 40A @ 115VAC at 25°C cold start, < 80A @ 230VAC at 25°C cold start |
| **OUTPUT SPECIFICATIONS** | |
| Output Voltage | See Table |
| Output Power Range | 65 Watts max with convection cooling. |
| Output Regulation | See table |
| Output Current | See Table |
| Ripple & Noise (20MHz BW) | 1% |
| Hold-Up Time | 10ms at max watt load and 115VAC nominal line. |
| Temperature Coefficient | All outputs ±0.04%/°C max. |
| **PROTECTION** | |
| Short Circuit Protection | Auto recover |
| Over Voltage Protection | Output 110% to 130% above following nominal output. Latching Type. AC recycle. |
| Over Load Protection | Over load protected @ 120% to 180% above following maximum rating. Auto recover. |
| **GENERAL SPECIFICATIONS** | |
| Efficiency | 80% typical at full output |
| **ENVIRONMENTAL SPECIFICATIONS** | |
| Operating Temperature | 0°C to +50°C ambient, each output derates at 2.5% per degree from +50°C to 70°C. |
| Humidity (non-condensing) | 20% to 90% |
| Cooling | Free air convection |
| MTBF | 100,000 hrs at full load and 25°C ambient. |
| **PHYSICAL SPECIFICATIONS** | |
| Weight | 7oz |
| Dimensions | 4(L) x 2(W) x 1.18(H) inches<br>101.6(L) x 50.8(W) x 30(H) mm |
| **SAFETY & EMC** | |
| Safety Standards | UL/cUL UL60601-1, TUV EN60601-1, CB IEC 60601-1 |
| EMC Standards | EN60601-1-2, FCC Part 18 Class B, EN55011 Class B, CE |

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## OUTPUT VOLTAGE / CURRENT RATING CHART

| Model | Output Voltage Range | Preset Voltage | Max. Output Current (convection cooling) | Output Power | Output Regulation | Ripple & Noise |
|---|---|---|---|---|---|---|
| PSM040B-1Y050 | 5 - 7VDC | 5VDC | 8A | 40W | 5% | 50mVp-p |
| PSM060B-1Y120 | 11-13VDC | 12VDC | 5A | 60W | 3% | 120mVp-p |
| PSM060B-1Y150 | 14-17VDC | 15VDC | 4A | 60W | 3% | 150mVp-p |
| PSM065B-1Y190 | 18-21VDC | 19VDC | 3.43A | 65W | 3% | 190mVp-p |
| PSM065B-1Y240 | 22-26VDC | 24VDC | 2.71A | 65W | 3% | 240mVp-p |
| PSM065B-1Y360 | 33-39VDC | 36VDC | 1.81A | 65W | 2% | 360mVp-p |
| PSM065B-1Y480 | 44-52VDC | 48VDC | 1.36A | 65W | 2% | 480mVp-p |

## NOTES

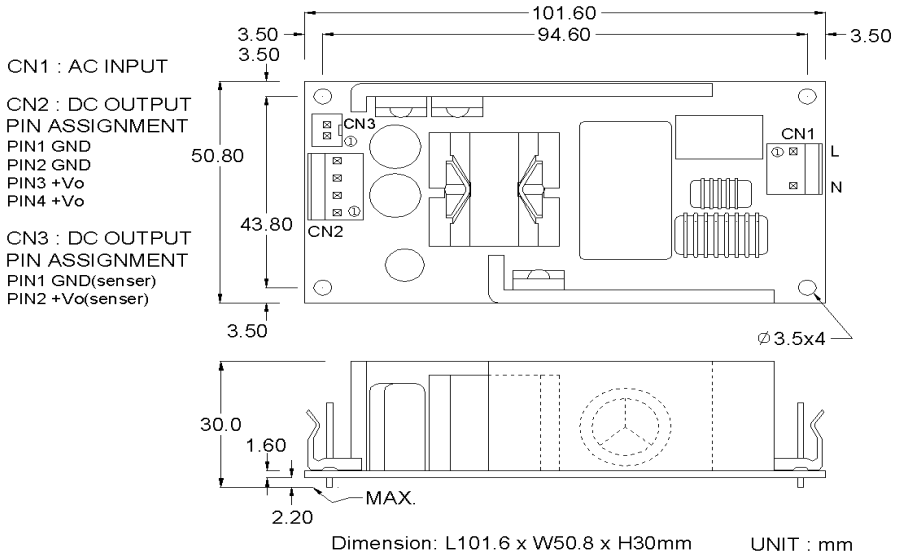
1. At 25°C including initial tolerance, line voltage, load currents, and output voltages adjusted to factory settings.
2. Ripple and Noise: Peak-to-peak with 20mHz bandwidth with a tantalum 10uF capacitor in parallel with a 0.1uF ceramic capacitor.
3. Other DC outputs available for 40W (5 to 7V), 60W (11 to 13V and 14 to 17V), 65W (18 to 21V, 22 to 26V, 33 to 39V, and 44 to 52V), set at factory. To determine part numbers for output voltages not listed see the “Part Number Guide” table below.
4. All output ranges are covered in agency certification and the preset voltage will be set as standard models. If any request is not standard output, please contact us prior to ordering.

| Part Number Guide |
|---|
| PSM040B-1Y**W** (5-7V) |
| PSM060B-1Y**X** (11-13V) |
| PSM060B-1Y**X** (14-17V) |
| PSM065B-1Y**Z** (18-21V) |
| PSM065B-1Y**Z** (22-26V) |
| PSM065B-1Y**Z** (33-39V) |
| PSM065B-1Y**Z** (44-52V) |

**W**= 050-070
**X** = 110-170
**Z** = 180-520

Ex: For a 6V output the part number would be PSM040B-1Y060
For a 12.2V output the part number would be PSM060B-1Y122
For a 33.4V output the part number would be PSM065B-1Y334

## MECHANICAL DRAWING




Dimension: L101.6 x W50.8 x H30mm UNIT : mm

**MATCHING CONNECTORS**

CN1 = AC INPUT MOLEX P/N: 09-65-2029 (OR EQUIVALENT) FEMALE HOUSING MOLEX P/N: 09-76-1020 (OR EQUIVALENT)
CN2 = DC OUTPUT MOLEX P/N: 09-65-2048 (OR EQUIVALENT) FEMALE HOUSING MOLEX P/N: 09-52-4044 (OR EQUIVALENT)

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