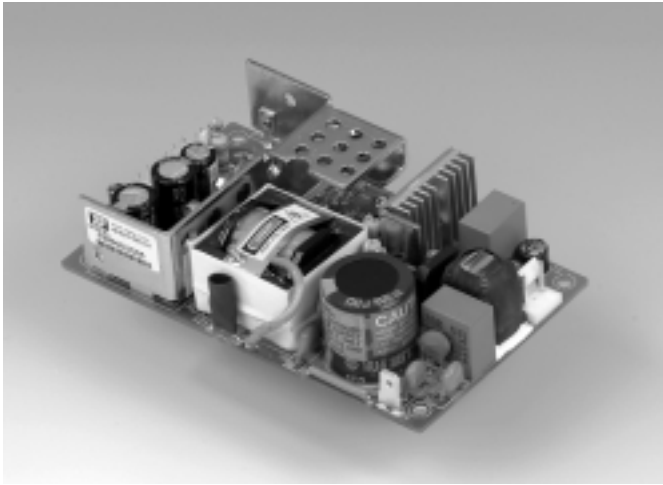


Medical Open Frame

65 Watts PBM65 Series



THE XPERTS IN POWER

- 4000 VAC Isolation
-
- Low Leakage Current
-
- Meets Class B, EN55011 Conducted
-
- Medical Safety Agency Approvals
-
- Both Line and Neutral Fused
-
- Fixed Switching Frequency

Specification

Input

- Input Voltage* • 85-264 VAC
- Input Frequency* • 47-63 Hz
- Input Current* • 1.6 A max at 115 VAC
1.0 A max at 230 VAC
- Inrush Current* • 17 A max at 115 VAC
40 A max at 230 VAC
- Earth Leakage Current* • 90 μ A max at 115 VAC, 60 Hz
150 μ A max at 230 VAC, 50 Hz

Output

- Output Voltage* • 5.1 to 28 VDC
- Output Voltage Adjustment* • $\pm 5\%$
- Output Power* • 65 Watts
- Minimum Load* • No minimum load required
- Line Regulation* • $\pm 0.5\%$ max at full load
- Load Regulation* • $\pm 2\%$ typical
- Ripple and Noise* • $\pm 1\%$ pk-pk max (See Note 2)
- Transient Response* • 4% maximum deviation, 500 μ s recovery time to within 1% for a 25% load change
- Temperature Coefficient* • $\pm 0.04\%/^{\circ}$ C
- Hold Up Time* • 10 ms minimum at 110 VAC
- Overvoltage Protection* • 112-132% with auto recovery
- Overcurrent Protection* • 125-200% with auto recovery
- Short Circuit Protection* • Trip & restart with auto recovery
- Remote Sense* • Compensates for up to 0.5 V drop

General

- Efficiency* • 66% minimum for 5 V models
75% minimum for all others
- MTBF* • 400,000 hrs min MIL-HDBK-217F
- Switching Frequency* • 42 kHz ± 5 kHz
- Isolation Voltage* • 4000 VAC Input to Output
1500 VAC Input to Output
500 VAC Output to Ground
- Size* • 5.0 x 3.0 x 1.2"
127.00 x 76.20 x 30.48 mm
- Weight* • 330 g approx (PCB format)

Environmental

- Operating Temperature* • 0 $^{\circ}$ C to +70 $^{\circ}$ C
Derate linearly from 100% load at +50 $^{\circ}$ C to 50% load at +70 $^{\circ}$ C
- Cooling* • Convection cooled
- Relative Humidity* • 5-95% non-condensing
- Storage Temperature* • -40 $^{\circ}$ C to +85 $^{\circ}$ C

EMC & Safety

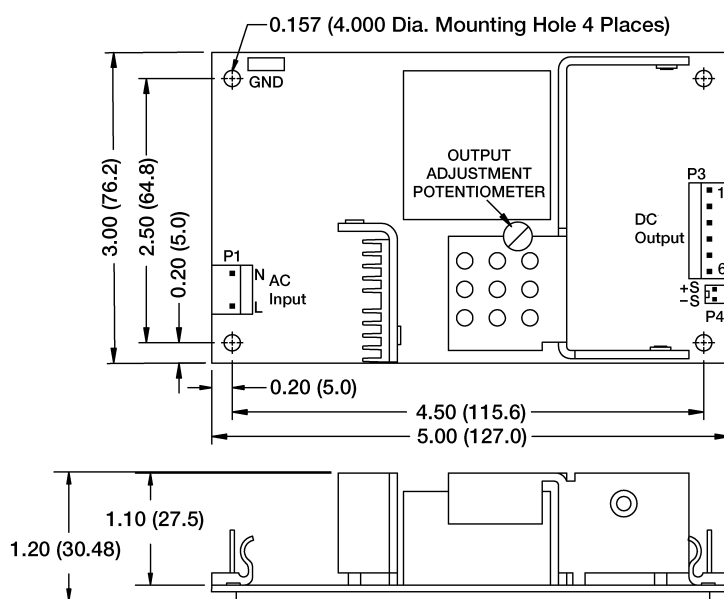
- Safety Approvals* • UL2601-1, CSA C22.2 No 601.1, EN60601-1 CE Mark (LVD)
- EMI/EMC* • EN55011 (CISPR11) Class B and FCC Part 18 Level B radiated & conducted
- ESD* • EN61000-4-2, Level 3 air, Level 2 contact, Perf Criteria A
- Radiated Immunity* • EN61000-4-3, 3 V/m, Perf Criteria A
- EFT/Burst* • EN61000-4-4, Level 3, Perf Criteria A
- Surge* • EN61000-4-5, Level 3, Perf Criteria A

| OUTPUT VOLTAGE & CURRENT RATINGS | | | | PBM65 |
|----------------------------------|----------------|----------------|---------------------------------|--------------|
| Maximum Output Power | Output Voltage | Output Current | Total Regulation ⁽¹⁾ | Model Number |
| 51 W | 5.1 VDC | 10.0 A | 3% | PBM65US05 |
| 65 W | 12.0 VDC | 5.5 A | 2% | PBM65US12 |
| 65 W | 15.0 VDC | 4.4 A | 2% | PBM65US15 |
| 65 W | 18.0 VDC | 3.7 A | 2% | PBM65US18 |
| 65 W | 24.0 VDC | 2.8 A | 2% | PBM65US24 |
| 65 W | 28.0 VDC | 2.4 A | 2% | PBM65US28 |

Notes

- Total regulation includes line and load regulation and set point accuracy.
- Ripple and noise measured with 20 MHz bandwidth with 10 μ F tantalum capacitor in parallel with a 0.1 μ F ceramic capacitor.

Mechanical Details



| P3 PIN CONNECTIONS | |
|--------------------|----------|
| Pin | Function |
| 1 | Output 1 |
| 2 | Output 1 |
| 3 | Output 1 |
| 4 | Return |
| 5 | Return |
| 6 | Return |

NOTES:

- Dimensions shown in inches (mm).
- Tolerance 0.02 (0.5) maximum.
- Input connector mates with molex housing 09-50-3031 and Molex 2878 series crimp terminal.
- Output connector mates with molex housing 09-50-3061 and Molex 2878 series crimp terminal.
- P4 is for sense connector mates with molex housing 22-01-1023 and molex 40445 series crimp terminal.
- Loom kits with 300 mm wire available, order part number PBM65 LOOM.
- For mating connectors only, order part number PBM65 CONKNT.
- Covers available, order part number PBM65 COVER.
- Weight: 330 g (PCB format).

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[EMH250PS12](#) [EML15US24-E](#) [EML30US03-S](#) [IA0524D](#) [IR0512SA](#) [ISW0505A](#) [ITV2405SA](#) [JCA0205S05](#) [JCA0248S05](#) [JCD0412D05](#)
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