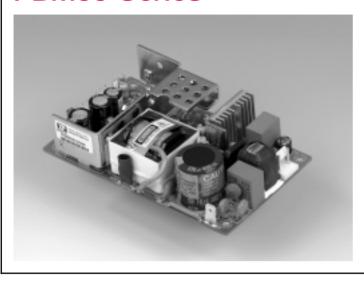
AC/DC Medical Open Frame

65 Watts PBM65 Series





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 Input Frequency Input Current

Inrush Current

Safety Ground Leakage Current 90-264 VAC

47-63 Hz

1.6 A max at 115 VAC 1.0 A max at 230 VAC

17 A at 115 VAC 40 A at 230 VAC

90 µA max at 115 VAC, 60 Hz 150 μA max at 230 VAC, 50 Hz

Output

Output Voltage Output Voltage Adjustment

Output Power

Minimum Load Line Regulation Load Regulation

Ripple and Noise Transient Response 5.1 to 28 VDC

±5%

65 Watts

No minimum load required ±0.5% max at full load

±2% typical

±1% pk-pk max (See Note 2) 4% maximum deviation, 500 µs recovery time to within 1% for a 25% load change

Temperature Coefficient

Hold Up Time

Overvoltage Protection

Overcurrent Protection Short Circuit

Protection Remote Sense ±0.04%/°C

10ms minimum at 110 VAC

112-132% with auto recovery

125-200% with auto recovery

Protected to short circuit conditions with auto-recovery

Compensates for up to 0.5 V drop

General

Efficiency

MTBF Switching Frequency

Isolation Voltage

Size

75% min for Vo >=12V, 66% min for others

400,000 hrs min MIL-HDBK-217F

3w2 kHz ±5 kHz

4000 VAC Input to Output 1500 VAC Input to Ground 500 VAC Output to Ground

5.0" x 3.0" x 1.2" Weight 330 g approx

Environmental

Operating *Temperature*

Cooling Relative Humidity

Storage Temperature 0 °C to +70 °C

Derate linearly from 100% load at +50 °C to 50% load at +70 °C

Convection cooled 5-95% non-condensing

-40 °C to +85 °C

EMC & Safety

Safety Approvals

EMI/EMC

UL2601-1, CSA C22.2 No 601.1, EN60601-1 CE Mark (LVD)

EN55011 (CISPR11) Class B & FCC Part 18 Level B radiated &

conducted

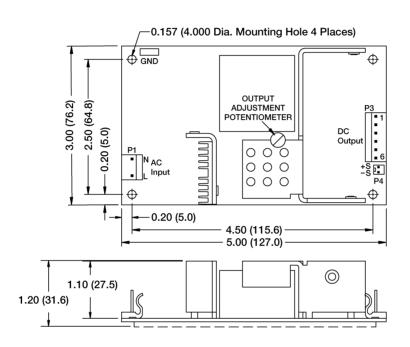


OUTPUT VOLTAGE & CURRENT RATINGS				PBM65
Maximum	Output	Output	Total	Model
Output Power	Voltage	Current	Regulation ⁽¹⁾	Number
51 W	5.1 VDC	10.0 A	3%	PBM65US05
65 W	12.0 VDC	5.5 A	2%	PBM65US12
65 W	15.0 VDC	4.4 A	2%	PBM65US15
65 W	18.0 VDC	3.7 A	2%	PBM65US18
65 W	24.0 VDC	2.8 A	2%	PBM65US24
65 W	28.0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

Notes

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

Mechanical Details



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

MECHANICAL NOTES:

- 1. Dimensions shown in inches (mm).
- 2. Tolerance 0.02 (0.5) maximum.
- 3. Input connector P1 mates with Molex housing 09-50-3031 and Molex 2878 series crimp terminal, or equivalent.
- 4. Output connector P3 mates with Molex housing 09-50-3061 and Molex 2878 series crimp terminal, or equivalent.
- 5. P4 is for sense connector mates with Molex housing 22-01-1023 and Molex 40445 series crimp terminal, or equivalent.
- 6. Covers available, order part number PBM65 COVER.
- 7. Weight: 330g (PCB format).

