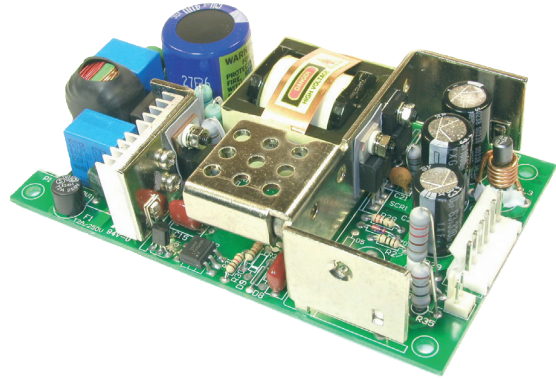


PM66 Series

51-65 WATTS SINGLE OUTPUT AC/DC MEDICAL

Features

- **Low safety ground leakage current.**
- **Wide input range 90 to 264Vac.**
- **Input surge current protection.**
- **Overvoltage protection.**
- **Overcurrent protection.**
- **Compact, open PCB construction.**
- **100% burn-in at full rated load.**



Specifications

INPUT

| | |
|-----------------|---|
| Input Voltage | 90–264Vac wide input |
| Frequency | 47Hz–67Hz |
| Input Current | 1.6A (rms) for 115Vac. 1.0A (rms) for 230Vac. |
| Leakage current | 90µA max. @ 115Vac. 60Hz. 150µA max. @ 230Vac. 50Hz. |
| Isolation | Input – Output: 4000VAC Input – Ground: 1500VAC Output – Ground: 500VAC |
| Inrush Current | 17A @ 115V, 40A @ 230V |

OUTPUT

| | |
|---------------------------|--|
| Output Voltage | See table |
| Output Voltage Adjustment | V1 ±10% |
| Output Current | See table |
| Ripple & Noise | 1% peak to peak |
| Line Regulation | ±0.5% maximum at full load. |
| Load Regulation | See table |
| Transient Response | Max. deviation 4% recovering to 1% within 500µs after 25% load charge |
| Overvoltage Protection | Provided on V1 only. Set at 110%–132% of nominal |
| Overcurrent Protection | All outputs protected for short circuit conditions |
| Temperature Coefficient | All outputs ±0.04% per °C |
| Holdup Time | Typically 10mS at 110VAC |

OPERATING

| | |
|------------|--------------------|
| MTBF | 400,000 hrs @ 25°C |
| Efficiency | 66%–75% |

ENVIRONMENTAL

| | |
|-----------------------|-----------------------|
| Operating Temperature | 0°C to 70°C |
| Derating | Derate to 50% at 70°C |
| Storage Temperature | -40°C to 85°C |
| Relative Humidity | 5%–95% non-condensing |

STANDARDS AND APPROVALS

| | |
|------------------|---|
| Safety standards | UL2601-1, CSA C22.2, TUV EN60601-1 |
| C-Tick | AS/NZS CISPR11 Group 1, Class A |
| EMC standards | EN60601-1-2: 2001, EN61000-3-2, -3, EN61000-4-2, -3, -4, -5, -6, -8, -11 |
| EMI standards | EN55011 Class B, FCC Class B, VCCI Class B |

MECHANICAL

| | |
|------------|-----------------|
| Dimensions | 127x76.2x31.6mm |
| Weight | 330grams. |

PM66 Series

51-65 WATTS SINGLE OUTPUT AC/DC MEDICAL

Selection Table

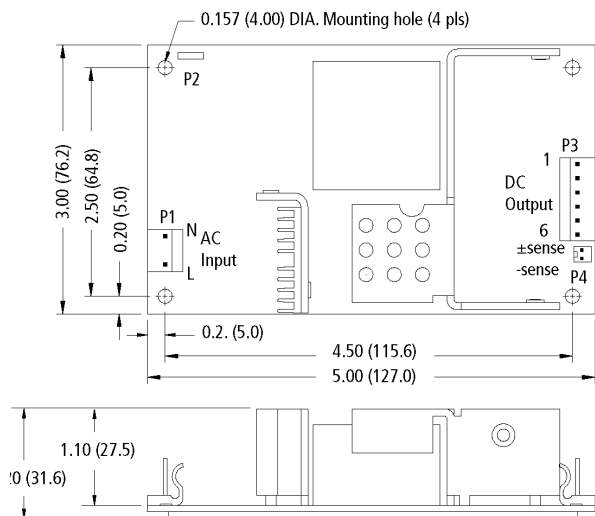
| MODEL NUMBER | OUTPUT #1 | | | | MAX. |
|--------------|-----------|------|-------|-----|--------------|
| | VNOM | IMIN | IMAX | TOL | OUTPUT POWER |
| PM66-10A | 5.1V | 0A | 10.0A | 3% | 51W |
| PM66-12A | 12V | 0A | 5.5A | 2% | 65W |
| PM66-13A | 15V | 0A | 4.4A | 2% | 65W |
| PM66-13-1A | 18V | 0A | 3.7A | 2% | 65W |
| PM66-14A | 24V | 0A | 2.8A | 2% | 65W |
| PM66-15A | 28V | 0A | 2.4A | 2% | 65W |

NOTES: Ripple and noise: Peak to Peak with 20 MHz bandwidth and 10 μ F in parallel with a 0.1 μ F capacitor at rated line voltage and load ranges.

Pin Chart

| MODEL/PIN | P1 | | P2 | P3 | | | | | | P4 | |
|--|---------|------------|-----------|----------|----------|----------|--------|--------|--------|--------|--------|
| | 1 | 2 | 1 | 1 | 2 | 3 | 4 | 5 | 6 | 1 | 2 |
| PM66-10A PM66-13A PM66-14A PM66-12A PM66-13-1A PM66-15A | AC Live | AC Neutral | AC Ground | Output 1 | Output 1 | Output 1 | Return | Return | Return | +Sense | -Sense |

Technical Illustration



NOTES

1. Dimensions shown in inches (mm)
2. Tolerance 0.02 (0.5) max
3. Input connector mates with Molex housing 09-50-3031 and Molex 2878 series crimp terminal
4. Output connector mates with Molex housing 09-50-3061 and Molex 2878 series crimp terminal
5. P4 is for \pm sense connector mates with Molex housing 22-01-1023 and Molex 40445 series crimp terminal
6. Weight: 330 grams (PCB format)