



FEATURES

- Medical 60601-1 Safety Approvals
- Small 5.80 x 2.87 x 1.19" Footprint
- 12V Input Range (11.5-16.0VDC)
- IPX1 Rated Enclosure
- High Power Density - 7.3W/in³
- EN55011 / FCC Part 15J Class B Emissions
- 3 Year Warranty

INPUT SPECIFICATIONS

| | |
|-----------------------------|--|
| Input Voltage | 11.5 - 16.0 VDC |
| Input Current | 18A at 12VDC |
| Inrush Current | <25A @ 11.5 VDC, Cold Start |
| Input Transient | 32VDC, 10 secs without damage |
| UnderVoltage Lockout | shutdown below 11.0 VDC, auto-recovery |
| OverVoltage Lockout | shutdown > 17.5VDC, auto-recovery |
| Over Current | shut-down when input >20A, auto-recovery |

OUTPUT SPECIFICATIONS

| | |
|---------------------------|---|
| Output Voltage | See Table |
| Line Regulation | ±0.5% |
| Load Regulation | ±5% |
| Minimum Load | None |
| Transient Response | ±5%, 50% step-load, slew rate 1A/μS |
| Ripple / Noise | 1% pk-pk max |
| Turn-On Delay | 3 seconds max after DC Input Applied |
| Over-Voltage | 110-140% Latching |
| Over-Load | Hiccup Mode, Auto-Recovery |
| Short Circuit | Continuous |
| Over-Temperature | Latching, recycle input and cool to reset |

GENERAL SPECIFICATIONS

| | |
|-------------------|--|
| Efficiency | 90% typical |
| Isolation | Non-Isolated |
| MTBF | 100K Hours, Mil-217F at 25 °C, full load |
| Weight | 450g |

ENVIRONMENTAL SPECIFICATIONS

| | |
|------------------------------|------------------------------|
| Operating Temperature | -15°C ~ +40°C |
| Derating | 5%/°C > 40°C, up to 50°C max |
| Storage Temperature | -40°C ~ +80°C |
| Operating Humidity | 10~95% (non-condensing) |
| Operating Altitude | 3000M (max) |
| Shock | IEC60068-2-27 |
| Vibration | IEC60068-2-6; IEC60068-2-64 |

EMC & SAFETY

| | |
|---------------------------|---|
| Emissions | EN55011, FCC Part J15, Class B, Conducted EN55011, FCC Part J15, Class B, Radiated |
| ESD | EN61000-4-2, 4kV contact, 8kV Air Discharge |
| EFT/Burst | EN61000-4-4, Level 3, Criterion A |
| Conducted Immunity | EN61000-4-6, 3V _{RMS} , Criterion A |
| Radiated Immunity | EN61000-4-3, 3V/m, Criterion A IEC60601-1, 2nd & 3rd Edition UL 60601-1 |
| Safety Approvals | CSA 22.2 No. 60601-1 EN60601-1, 3rd Edition CE Mark |



| MODELS | OUTPUT VOLTAGE | MAXIMUM CURRENT | RIPPLE & NOISE | TOTAL REGULATION |
|-------------------|----------------|-----------------|----------------|------------------|
| MDP150-19y | 19V | 7.90A | 190mV | ±5% |
| MDP150-24y | 24V | 6.25A | 240mV | ±5% |
| MDP150-26y | 26V | 5.70A | 260mV | ±5% |

* Designate DC Output Connector by replacing "y" with the following:

"D" for for 8 Pin DIN Connector

"M" for Molex Connector Part Number 39-01-2060 or equivalent

"K" for Kycon KPP-4P Locking Connector

* Other Connectors available upon request, please consult factory. Consult factory for unique Voltage setpoints or other modifications.

OUTLINE DRAWING

