

MW156

Universal 75 Watt Series



Medical / Switch Mode Power Supply

- 100-240 VAC Universal Input
- ENERGY STAR Level IV Compliant
- Low Life-Cycle Operation Cost
- Desktop Style
- Complies with EMI/RFI Regulations
- CE Compliant (LVD, EMC, WEEE, RoHS)
- Impact Resistant, Non-vented Polycarbonate Enclosure
- Modified and Custom Designs also Available



International Safety Standard Approvals



Specifications

Output Specifications

| | | |
|----------------------------------|---------------------------------|--|
| Line and Load Voltage Regulation | Excluding Cord | +/-1% |
| Ripple | | 1% V _{p-p} max. |
| Transient Response | 3.0ms max. for 50% Load Change | Slew Rate of 0.1A/us |
| Protection | Cycle-by-Cycle Current Limiting | Automatic Recovery for Overload or Short Circuit; Active OVP |

Input Specifications

| | | |
|----------------|---------------------------|--|
| Voltage | 100-240VAC Nominal | |
| Line Frequency | 47-63Hz | |
| Input Current | 2.0A max. | |
| Protection | Input Fuse Inrush Limited | |

Environmental Specifications

| | | |
|---------------------|-----------------------|--------------------------------|
| Thermal Performance | Operating Temperature | 0° C to 40° C with no Derating |
| Cooling | Convectional | Non-ventilated Enclosure |
| Relative Humidity | Non-condensing | 5% to 95% |
| Altitude | 0-10,000 feet | |

General Specifications

| | | |
|--------------------------------|--|---------------|
| Topology | Quasi-resonant Fly-back Current-mode Control | |
| Efficiency | Energy Star Level IV | |
| Hold-up Time | @120V | 16ms, Typical |
| Storage Temp | -20° C to +85° C | |
| Approvals and Safety Standards | UL60601-1, TUV/EN60601-1 IEC60601-1 | |
| MTBF | 165,000 Hours | |
| Weight | 408g (14.8oz) | |
| Case and Dimension | LP6 5.44L x 2.19W x 1.32H (in) 138.2L x 55.6W x 33.5H (mm) | |
| Case Material | V-0 Polycarbonate Black | |
| Cord and Connectors | 6ft. (1.8m) 2-Conductor, 18AWG Standard AULT#3 Connector. | |

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For the most current data and application support visit www.slpower.com

| Ault Part Number | Output Voltage | Output Currents | | Max Watts |
|------------------|----------------|-----------------|--------|-----------|
| | | Min | Max | |
| MW156RA1203N01 | 12 V | 0.00 A | 6.30 A | 75.0 W* |
| MW156RA1503N01 | 15 V | 0.00 A | 5.00 A | 75.0 W |
| MW156RA1803N01 | 18 V | 0.00 A | 4.20 A | 75.0 W |
| MW156RA2403N01 | 24 V | 0.00 A | 3.10 A | 75.0 W |

Ault Part Number Key

| | | | | | | |
|---------------------|------------------------|---------------|----------------|------------------------|-----------------------|--|
| MW156 | R | A | 12 | 03 | N | 01 |
| Product Family Name | Manufacturing Location | Type Revision | Output Voltage | Output Connector Style | Input Connector Style | Standard Item (other numbers for custom) |

*12V model rated 70W with input voltages rated 100-119V, 75W with input voltages rated 120-240VAC.

EMI Compliance

| | | |
|----------|---------------|---------------------------------------|
| FCC | EN55024 | Class B Conducted and Radiated |
| Harmonic | IEC 61000-3-2 | Class A |
| ESD | IEC 61000-4-2 | CD Level 2 AD Level 3, Criterion B |
| RFS | IEC 61000-4-3 | Level 2, Criterion A |
| EFT | IEC 61000-4-4 | Level 2, Criterion A |
| Surge | IEC 61000-4-5 | Level 3, Criterion B |

Optional Features

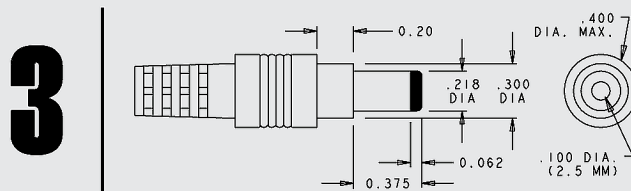
| |
|---|
| Various output cord wire gauges and connector styles available. See Ault connector style sheets for connector options |
| "Power-on" LED |
| IEC 61000-3-2 Class D Harmonic Input Cord |
| Active, Auto-recovery Over Temperature Protection Circuit |
| Synchronous Rectification for Output Voltages Lower than 12V |
| Private Label Marking |

Input Configuration



Shaver
C8
(N)

Pin Connections



| | |
|---|-------------------------------------|
| Pinout Code | Center contact: positive |
| Description | Switchcraft 760 plug or equivalent |
| Suggested Mating | Switchcraft 712A jack or equivalent |
| Other Connectors are available by special order | |