CSS150 Series

150W, 3 x 5" AC-DC Medical Power Supplies

Features

- ◆ Wide Range AC Input
- ◆ Low profile, Industry Standard Footprint
- ◆ Global Safety Agency Compliance
- ◆ Dual input fuses





Key Market Segments & Applications





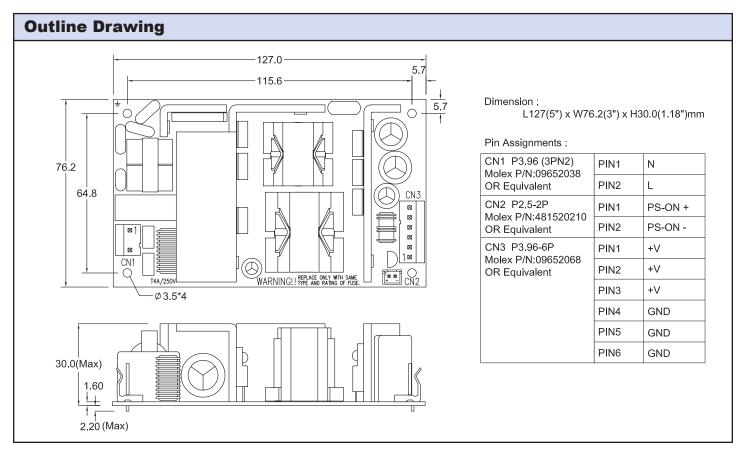






|) | |
|---|-----------|
| | Broadcast |

| Specifications | | | | | | | |
|----------------------------|-----|--|--|--|--|--|--|
| Model CSS150 | | | | | | | |
| Input Voltage range | V | 90 - 264VAC (47 - 400Hz)(1) or 120 - 180VDC* | | | | | |
| Inrush Current | Α | <60A maximum at 264VAC input, 25°C ambient cold start | | | | | |
| Input Current (115/230VAC) | Α | 1.7 / 0.85 | | | | | |
| Power Factor Correction | - | Meets EN61000-3-2, >0.9 | | | | | |
| Leakage Current | μA | <250µA 264VAC 63Hz | | | | | |
| Hold Up Time (Typ) | ms | 16ms at 115VAC input | | | | | |
| Temperature Coefficient | - | ±0.05%/°C | | | | | |
| Voltage Accuracy | % | ±1% | | | | | |
| Minimum Load | Α | None | | | | | |
| Total Regulation | % | ±3% | | | | | |
| Ripple & Noise | % | 2% peak to peak | | | | | |
| Overcurrent Protection | - | 110 - 150% | | | | | |
| Overvoltage Protection | V | 110 - 150% of nominal (Cycle input power to reset) | | | | | |
| Remote On/Off | - | Unit on: Floating or low <1.2V, Unit off: Apply 5V with respect to 0V | | | | | |
| Efficiency | % | 89% typical | | | | | |
| Off load power draw | W | <0.5W | | | | | |
| Operating Temperature | °C | 0 to +70°C derate linearly to 50% load from 50 to 70°C | | | | | |
| Storage Temperature | °C | -20 to +85°C | | | | | |
| Humidity (non condensing) | - | 10 - 95% RH | | | | | |
| Cooling | - | Convection or forced air (2.5m/s) | | | | | |
| Withstand Voltage | - | Input to Ground 1.5kVAC, Input to Output 3kVAC (2 x MOOPs 3rd Edition), Output to Ground 500VDC for 1 min. | | | | | |
| Isolation Resistance | - | >100M at 25C & 70%RH, Output to Ground 500VDC | | | | | |
| Vibration (non operating) | - | 19.6m/s² (10~55Hz:2G Constant, X,Y,Z 60min each.) | | | | | |
| Shock | - | < 196.1 m/s ² (20G) | | | | | |
| Safety Agency Approvals | - | UL/CSA/IEC/EN 62368-1, 60950-1, UL/CSA/IEC/EN 60601-1, ANSI/AAMI ES60601-1, CE and UKCA Mark | | | | | |
| Conducted & Radiated EMI | _ | EN55011-B, FCC Class B | | | | | |
| Immunity | _ | EN60601-1-2 | | | | | |
| MTBF | | 180,000 (MIL-217F-HDBK) | | | | | |
| Weight (Typ) | g | 340g | | | | | |
| Size (LxWxH) | mm | 127 x 76.4 x 33mm (including underside components) | | | | | |
| Size (LxWxH) | in | 5 x 3 x 1.3" (including underside components) | | | | | |
| Warranty | yrs | Two Years | | | | | |



| Model Selector | | | | | | | | |
|----------------|-----------------------|--------------------------------------|------------------------------------|----------------------------------|--------------------------------|--|--|--|
| Model | Output Voltage (V) | Maximum Current Convection (A) | Maximum Power Convection (W) | Maximum Current Forced Air | Maximum Power Forced Air | | | |
| CSS150-12 | 12V* | 8.3A | 100W | 12.5A | 150W | | | |
| CSS150-15 | 15V | 6.7A | 100W | 10A | 150W | | | |
| CSS150-24 | 24V | 4.2A | 100W | 6.3A | 150W | | | |
| CSS150-36 | 36V | 2.8A | 100W | 4.2A | 150W | | | |
| CSS150-48 | 48V | 2.1A | 100W | 3.1A | 150W | | | |

^{*} Factory set at 12.2V at zero load

Connectors (not supplied)

- ◆ Input Connector mates with Molex Housing 09-50-3031 or equivalent
- Output Connector mates with Molex Housing 09-50-3061 or equivalent
- ◆ Remote On/Off (CN2) mates with J.S.T. XHP-2

For Additional Information, please visit https://product.tdk.com/info/en/products/power/index.html

