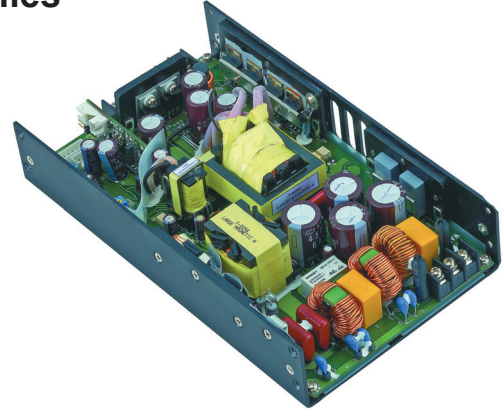


500W AC-DC Medical or Industrial Power Supplies

Features

- ◆ 360W Convection rating
- ◆ High Efficiency
- ◆ IEC60601-1 or IEC60950-1 certifications
- ◆ ORing FET & Current Share
- ◆ Dual input fuses



Key Market Segments & Applications



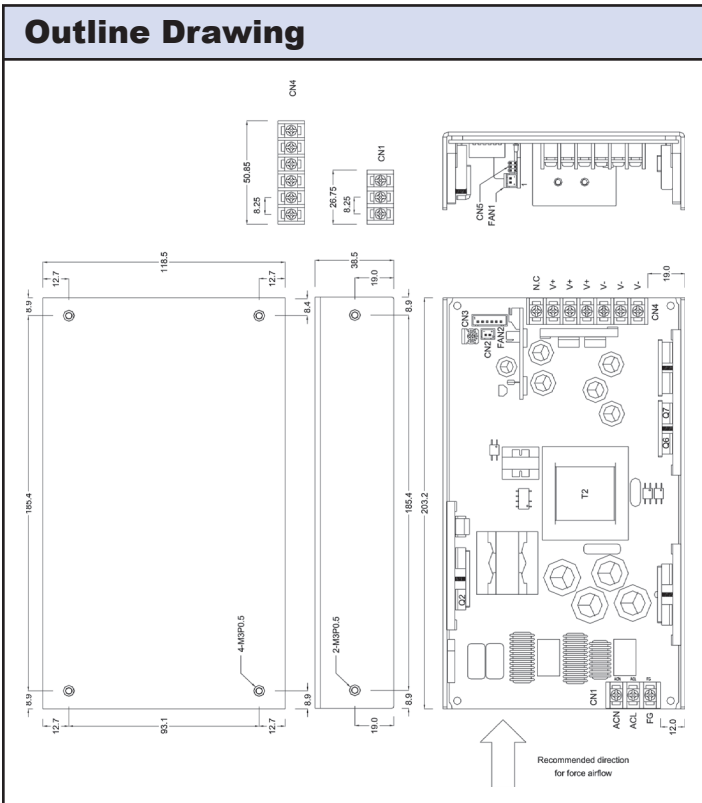
| Specifications | | CSS500 |
|----------------------------|-----|--|
| Input Voltage range | - | 90 - 264VAC (47 - 63Hz) |
| Inrush Current | A | <50A maximum at 230VAC input, 25°C ambient cold start |
| Input Current (115/230VAC) | A | 6 / 3A |
| Power Factor Correction | - | Meets EN61000-3-2, >0.9 |
| Leakage Current | µA | <300µA 264VAC 63Hz |
| Hold Up Time (Typ) | ms | 20ms at 115VAC input, 360W loading |
| Temperature Coefficient | - | ±0.04%/°C |
| Voltage Accuracy | % | ±1% at 60% load |
| Adjustment Range | % | None |
| Regulation | - | Load Regulation ±1%, Line Regulation ±0.5% |
| Ripple & Noise | % | 1% peak to peak (5Vsb also) |
| Overcurrent Protection | - | 110 - 150% |
| Overvoltage Protection | V | 110 - 130% of nominal (Cycle input power or use remote on/off to reset) |
| Overtemperature Protection | - | Yes (Cycle input power or use remote on/off to reset) |
| Remote On/Off | - | Unit on: Floating or high 3.5 - 5.25V, Unit off: Low or <0 - 0.5V |
| Remote Sense | - | Yes |
| Efficiency | % | 87% to 92%, model & input dependant |
| Standby Voltage | - | 5V 1A (5V 0.25A when convection cooled or when inhibit is activated) |
| Fan Output | - | 12V 1A |
| Current Share | - | Single wire, up to 4 units can be shared within 10% accuracy at full load |
| DC Good & Fan Fail Signals | - | Both Low on Fail |
| ORing FET | - | Yes, for redundant operation |
| Operating Temperature | °C | Convection (U channel): 0 to +70°C, derate linearly to 35% load from 40 to 70°C Forced air (or internal fan): 0 to +70°C, derate linearly to 50% load from 50 to 70°C |
| Storage Temperature | °C | -10 to +85°C |
| Humidity (non condensing) | % | 10 - 95% RH |
| Cooling | - | Convection or forced air (30CFM or 3.1m/s). Internal fan is temperature controlled |
| Withstand Voltage (1) | - | Input to Ground 1.5kVAC, Input to Output 4kVAC(1), Output to Ground 500VAC for 1 min. |
| Isolation Resistance | - | >20M at 25°C & 70%RH, Output to Ground 500VDC |
| Vibration (non operating) | - | 19.6m/s ² (10~55Hz:2G Constant, X,Y,Z 60min each.) |
| Shock | - | < 196.1 m/s ² (20G) |
| Safety Agency Approvals | - | Medical Version: IEC/UL/CSA/EN60601-1, ANSI/AAMI/ES60601-1, Industrial Version: IEC/UL/CSA/EN62368-1, 60950-1, CE Mark |
| Conducted & Radiated EMI | - | Medical Version: EN55011-B, Industrial: EN55032, FCC Class B |
| Immunity | - | Medical Version: EN60601-1-2, Industrial: EN55032 |
| MTBF | - | >68,695 (MIL-217F-HDBK) |
| Weight (Typ) | g | 860g (U channel), 980g (End Fan) |
| Size (LxWxH) | mm | U Channel: 203.2 x 119.4 x 38.4mm, End Fan (S): 228.6 x 119.4 x 41.4mm, Top Fan (T): 203.2 x 119.4 x 72.4mm |
| Size (LxWxH) | in | U Channel: 8 x 4.7 x 1.51", End Fan (S): 9 x 4.7 x 1.63", Top Fan (T): 8 x 4.7 x 2.85" |
| Warranty | yrs | Two Years |

(1) Industrial version (I suffix): 3kVAC

Medical version: Input to ground (1xMOPP), Input to output 4kVAC (2xMOPP)

| Model Selector | | | | | |
|----------------|--------------------|-------------------------|-------------------------|--------------------------|------------------------|
| Model | Output Voltage (V) | Maximum Curr. Conv. (A) | Maximum Power Conv. (W) | Maximum Curr. Forced Air | Maximum Pwr Forced Air |
| CSS500-12 | 12V | 30A | 360W | 41.67A | 500W |
| CSS500-24 | 24V | 15A | 360W | 20.84A | 500W |
| CSS500-30 | 30V | 12A | 360W | 16.67A | 500W |
| CSS500-36 | 36V | 10A | 360W | 13.89A | 500W |
| CSS500-48 | 48V | 7.5A | 360W | 10.42A | 500W |
| CSS500-54 | 54V | 6.67A | 360W | 9.26A | 500W |
| CSS500-57 | 57V | 6.32A | 360W | 8.78A | 500W |

| Options | | | | | |
|---------|------------|---------|---------|-----------------------|------------|
| Suffix | Mechanical | | | Safety Certifications | |
| | U channel | End Fan | Top Fan | Medical | Industrial |
| Blank | Yes | - | - | Yes | - |
| /S | - | Yes | - | Yes | - |
| /T | - | - | Yes | Yes | - |
| I | Yes | - | - | - | Yes |
| /SI | - | Yes | - | - | Yes |
| /TI | - | - | Yes | - | Yes |



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