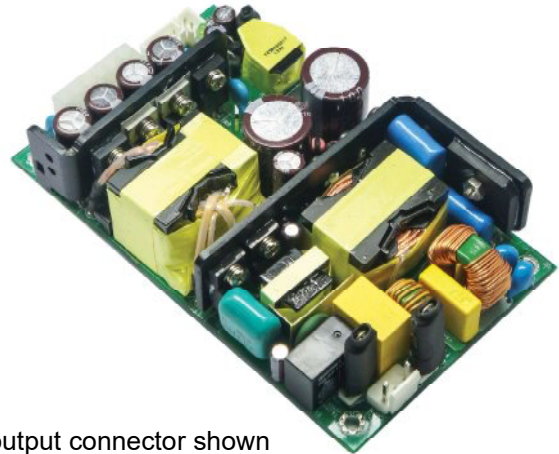


3 x 5" 280W AC-DC Medical Power Supplies

Features

- ◆ Wide Range AC Input
- ◆ Low profile, Industry Standard Footprint
- ◆ 210W Convection
- ◆ Global Safety Agency Compliance
- ◆ Dual Input Fuses



Key Market Segments & Applications



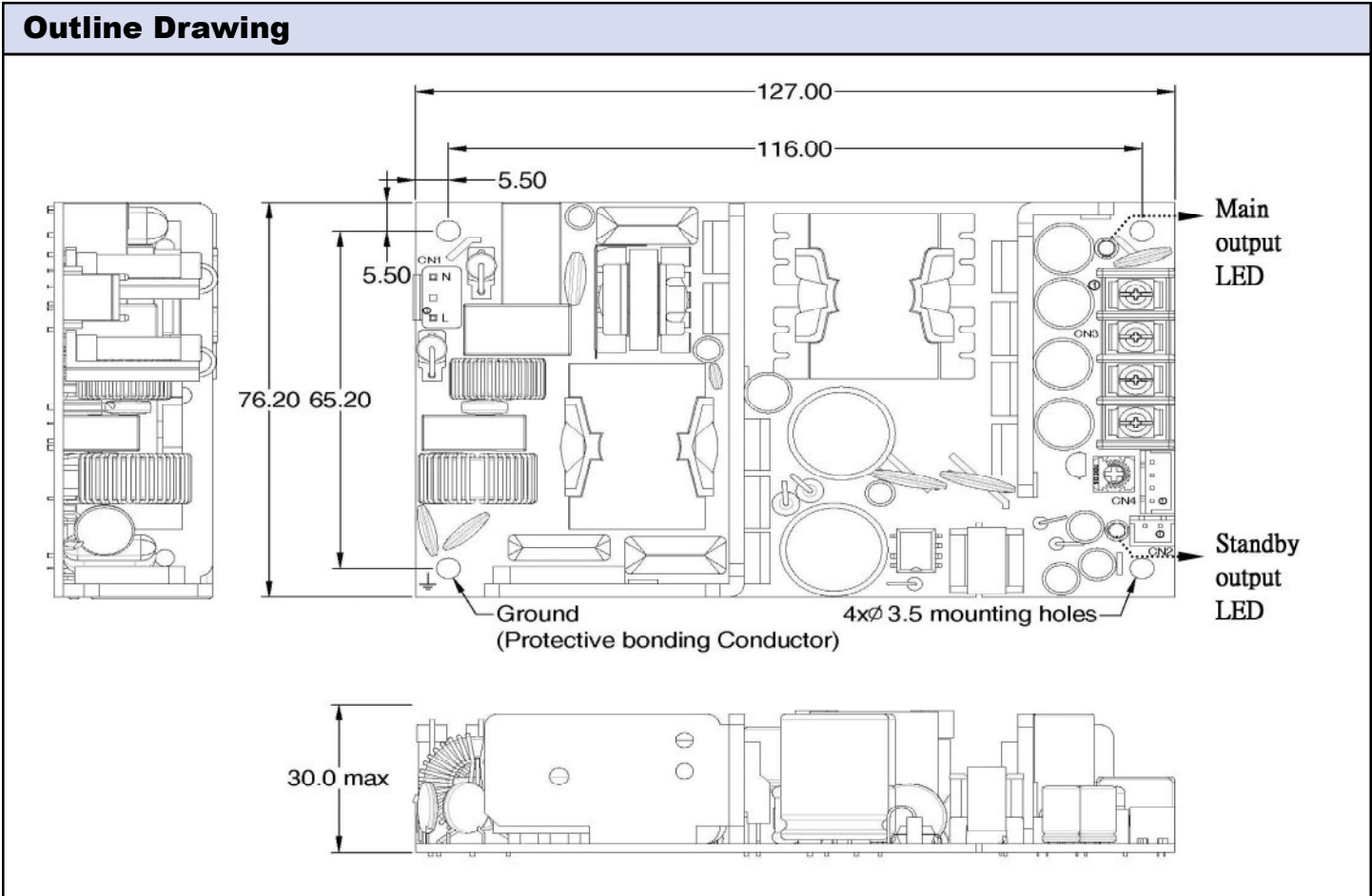
/M output connector shown



| Specifications | | CSS280 |
|--|---------|---|
| Model | | CSS280 |
| Input Voltage range (1) | V | 90 - 264VAC (47 - 63Hz) |
| Inrush Current | A | <60A at 230VAC input, 25°C ambient cold start |
| Input Current (115/230VAC) | A | 3.5 / 2A |
| Power Factor Correction | - | Meets EN61000-3-2, >0.9 |
| Earth Leakage Current | µA | <100µA 264VAC 63Hz |
| Hold Up Time (Typ) | ms | 10ms at 115VAC input |
| Temperature Coefficient | %/°C | ±0.1%/°C |
| Total Regulation | % | ±1% (±10% for Vsb) |
| Ripple & Noise | % | 2% peak to peak |
| Overcurrent Protection | - | 105 - 150% |
| Overvoltage Protection | V | 104 - 140% of nominal (Cycle input power or activate remote on/off to reset) |
| Overtemperature Protection | - | Shuts down the power supply. Manual reset by cycling the input or using the remote on/off |
| Remote On/Off | - | Unit on: Floating or high, Unit off: Low |
| Standby Voltage (always on) | - | +5V 0.5A, 100mV peak to peak ripple |
| Fan Supply | - | +12V 0.3A |
| Efficiency (typical) | % | 91% |
| Avg. Efficiency (25, 50, 75 & 100% load) | | 88% |
| Power Draw (in standby mode) | W | <0.5W |
| Operating Temperature | °C | -20 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 (18CFM) |
| Withstand Voltage | - | Input to Ground 1.5kVAC, Input to Output 4kVAC, Output to Ground 1.5kVAC for 4s |
| Isolation Resistance | - | >100M at 25C & 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 | - | UL/EN/IEC60601-1, UL/EN/IEC60950-1, CE Mark. (2 x MOPPS 3rd edition) |
| Conducted & Radiated EMI | - | EN55011-B, EN55022-B, EN55024-B, FCC Class B |
| Immunity | - | IEC60601-1-2 Ed4 |
| Weight (Typ) | g | 350g |
| Size (WxLxH) | ln (mm) | 3 x 5 x 1.18" (76.2 x 127 x 30mm) |
| Warranty | yrs | Three Years |

Notes

(1) With convection cooling, derate linearly to 190W, from 100VAC TO 90VAC



Model Selector

| Model | Output Voltage (V) | Maximum Current Convection (A) | Maximum Power Convection (W) | Maximum Current Forced Air | Maximum Power Forced Air | Ripple & Noise |
|-----------|--------------------|--------------------------------|------------------------------|----------------------------|--------------------------|----------------|
| CSS280-12 | 12V | 17.5A | 210W | 23.33A | 280W | 150mV |
| CSS280-24 | 24V | 8.75A | 210W | 11.66A | 280W | 240mV |
| CSS280-28 | 28V | 7.5A | 210W | 10A | 280W | 280mV |
| CSS280-48 | 48V | 4.375A | 210W | 5.83A | 280W | 300mV |
| CSS280-54 | 54V | 3.88A | 210W | 5.18A | 280W | 400mV |

Options

| Suffix | Description |
|--------|---------------------------------------|
| Blank | Screw terminal block output connector |
| /J | JST output connector |
| /M | Molex Minifit output connector |

Other Medical Products

| | |
|---------|----------------------------------|
| KM | 15 - 40W pcb mount 1 - 3 outputs |
| CSS | 40 - 500W single output |
| NV175 | 175 - 200W 1-4 outputs |
| NV300 | 300W 1-4 outputs |
| EFEM | 300-400W |
| CFE400M | 300-400W (300W convection) |

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



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