400 W Medical Power Supply Has Compact Size

Tumbler Technologies + TRUMPower has launched a new addition to its AC/DC switching power supply line-up with the TMC400 series, approved to international medical standards.
Specifically designed for medical applications, it is capable of delivering 400 W of continuous output power at 7 CFM forced air or 300 W at convection cooling. The unit is a compact, open frame design measuring only 4 x 7 x 1.58 in. and is built on a circuit board with a U-bracket. It has an active efficiency of 87% and features a power factor of 0.98.

The TMC400 series can withstand voltage of 4,000 VAC from input to output, 1,500 VAC from input to ground, and 500 VAC from output to ground. The series includes seven standard models of single 12 to 48 V power supplies, each with an earth leakage current typically measuring 100 µA at 115 VAC, 60 Hz, and 220 µA at 264 VAC, 50 Hz. Output voltage is factory preset specifically to meet the user's request.

Operating at a 90 to 264 VAC universal input, the series has a standby output of 5 VDC/100 mA. Other key features include overvoltage, overcurrent, and temperature protections. The TMC400 units operate at -10 to 70°C ambient with derating required from 100% at +50°C linearly to 50% at +70°C. Its 350,000 hours-minimum MTBF at full load at 25°C ambient per MIL-HDBK-217F proves to be highly reliable. An optional cover and fan assembly can be added during manufacturing.

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