AC-DC Power Supply Range Extended to 1 kw for Medical Applications

XP Power announced additions to its SHP and MHP series of high power density fan cooled AC-DC power supplies. The SHP1000 and MHP1000 are highly efficient, typically 85%, have a power density of up to 8.9 Watts/cubic inch and can provide 1000 W across the full input range of 90-264 VAC. Models with an output of 24 VDC or greater are capable of providing up to 1200 W when used with an input of 180 VAC or greater. A range of 6 models provide the single outputs of +12, +15, +24, +28, + 36 or +48 VDC. The output is user adjustable within +/- 10% of nominal. A +5VDC, 1A always on output is also provided for standby purposes.

The MHP1000 range meets the UL/IEC60601-1 safety specification for medical equipment as well as EN55022/EN55011 EMC limits of Class B for conducted emissions and Class A for radiated. The SHP1000 range compiles with the UL/IEC60950-1 standards for ITE equipment, meets SEMI F47 requirements and EN55022 EMC limits for Class B conducted and Class A radiated.

These compact units, measuring just 242.6 x 149.8 x 61.0 mm (9.55 x 5.90 x 2.40 inches), can deliver full output power from -20 to +50 degrees C and with derating up to +70 degrees C. The units are capable of start up from as low as -40 degrees C. Both the SHP and MHP employ a variable speed fan for noise reduction.

Available control signals include AC OK and remote on/off. An active single wire current share capability is also provided to allow sharing of loads across multiple units or for configuration of redundant systems, remote sense is also provided.

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