Rugged 350 W AC-DC Power Supplies

XP Power today announced the SHP350 series of single output rugged 350 W AC-DC power supplies aimed at industrial applications. Achieving a high power density of 6.6 Watts per cubic inch and with a typical efficiency of 85%, these compact fan-cooled units measure only 7.0 x 3.6 x 2.1 inches (177.8 x 91.44 x 53.34 mm).

The series comprises six single output models providing the popular nominal output voltages from +12 to +48 VDC. The output is also capable of being adjusted within +/- 10% in order to cater for any non-standard voltage applications. A remote sense facility compensates for a voltage drop of up to 0.5 V due to line losses. An auxiliary output provides an always-on +5 VDC / 0.2 A output suitable for powering memory, logic or control functions.

The supplies accept the full universal input range from 85 to 264 VAC. When operated at high-line input voltages above 180 VAC, the SHP350 has a peak power capability that can deliver up to 420 Watts output for up to 10 seconds. The ability to momentarily provide a higher output power is ideal for applications, such as motor start-up, where increased power is very occasionally required. Customers need not design in a higher wattage power supply thus saving additional cost and valuable board space.

Control signals include AC OK/power fail and a remote On/Off input. A single wire current sharing facility allows the addition of extra units to provide an overall higher power output or to configure redundant units.

The SHP350 can operate over a wide temperature range of -20 to + 70 degrees C, with no derating until +50 degrees C and offers start up from -40 degrees C. The units are internally cooled and employ a variable speed fan to assist in audible noise reduction.

Meeting the SEMI F47 Voltage Sag Immunity Standard for factory automation equipment, especially relevant to the production of semiconductors, the SHP350 can assure the required output voltage and current will be maintained in the event of a sag in AC input voltage below specified limits. The units also meet the IT equipment safety specification UL/EN 60950-1 and comply with the EN55011/EN55022 level B standard for conducted emissions without the need for additional filtering components.

The SHP350 compliments two higher output power ranges of 650W and 1000W currently available within the SHP family.

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408-732-7777; www.xppower.com [1]

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