Power Supplies Feature Medical and IT Equipment Safety Approvals

Emerson Network Power today announced the latest additions to its portfolio of NPS6x-M series 60 W convection cooled open-frame ac-dc power supplies. The new NPS62-M has a 5 Vdc output and can deliver up to 11 A, while the NPS65-M has a 24 Vdc output and can deliver up to 2.5 A. The output voltage of each power supply can be adjusted by plus or minus 20 percent.

Emerson Network Power's latest NPS62-M and NPS65-M power supplies carry a comprehensive set of worldwide IT equipment (ITE) and non-patient contact and non-patient critical medical safety approvals. They have a safety ground leakage current not exceeding 275 ÂµA when operating from their maximum input voltage. Both models have a compact 2 x 4 inch (51 x 102 mm) footprint and a height of just 1 inch (26 mm), which makes them ideal for use in light industrial, instrumentation and process systems, as well as in low-power dental and laboratory equipment. An optional enclosure kit (LPX50) is available for maximum protection.

The NPS62-M has a typical full-load efficiency of 80 percent, while the NPS65-M achieves an even higher figure of 87 percent and meets a variety of rigorous energy efficiency standards, including International Efficiency Level V and Energy Star 2.0, as well as being California Energy Commission (CeC) compliant. Both power supplies feature a wide universal input voltage range of 90 to 264 Vac and are also capable of operating from a 127 to 300 Vdc input. They have a maximum input power requirement of less than 74 W, and a no-load power consumption of less than 300 mW.

NPS62-M and NPS65-M power supplies have a full load operating temperature range of zero to 50 degrees Celsius, and can be used at up to 80 degrees Celsius with suitable derating. They both provide tight regulation, maintaining the output voltage to within plus or minus 2 percent for all standard line and load conditions, and feature optional remote sense capabilities to compensate for a 0.5 V drop in the output cables. The power supplies are comprehensively protected against fault conditions and have a high demonstrated mean time between failures (MTBF) of more than 550,000 hours.

Emerson Network Power's NPS62-M and NPS65-M power supplies feature built-in CISPR 22 Class B EMI filters, and meet the rigorous EN55022 Class B, FCC Class B and VDE0878PT3 Class B conducted noise standards. The power supplies also comply with the EN61000-3-2 harmonic emissions standard. International safety approvals include TUV/UL/CSA/NEMKO 60950/60601-1, CE Mark (LVD) and CB certification.

Source URL (retrieved on *12/08/2013 - 3:25pm*):
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