



Embedded Boards • Power Supplies • Instruments

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For Immediate Release

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New 200 Watt, Low-Profile DC/DC Converter Now Available

28Vdc input, quad output unit offers a high-power density/low-cost solution

Bohemia NY -- North Atlantic Industries (NAI) has announced the availability of a new rugged, 200 watt, low-profile, high-power density, conduction-cooled, quad output power supply targeted for VME/cPCI systems and general purpose applications. The 55PQ1 accepts a 28Vdc input per MIL-STD-704D and provides outputs of +3.3 Vdc @ 15A, +5 Vdc @ 15A, +/-12 Vdc @ 2A plus a +5 Vdc standby output. It provides full output power at 100°C base plate temperature. The 55PQ1 low-noise, switching, DC/DC Converter is designed with component derating per NAVMAT/NAVSO P-3641, internal EMI filtering per MIL-STD-461E and transient protection per MIL-STD-704D. It is ideally suited for airborne, shipboard, ground mobile and C³I applications.

The 55PQ1 operates over the -55°C to +100°C temperature range and can be purchased with H Reliability (Full-Mil-Grade components) or M Reliability (COTS-Mil-Type components). Temperature Cycling and vibration screening is performed per NAVMAT guidelines. Available features of the 55PQ1 include: continuous short-circuit protection, remote sensing, current sharing, and ANSI/VITA signaling for AC Fail, System Reset, Reset, DC Good, Power Fail and Share OK.

Standard specifications include: 75% minimum efficiency, 0.1% line and load regulation, 50mVpp maximum noise and ripple, 0.5 msec load transient recovery and 500 Vdc isolation voltage.

Pricing at the 100 piece level for the "M" Reliability option is \$2,000 each. Delivery is 8 to 10 weeks ARO.

"Our new 55PQ1 has been very well received by our customers," said Frank Riccobono, Director of Sales and Marketing at NAI. "They particularly like the low profile, high power density, quad outputs and wide operating temperature range."

North Atlantic Industries

Founded in 1955, North Atlantic Industries (NAI) designs and manufactures Embedded I/O (Input/Output) Boards, Power Supplies, and Motion Simulation and Measurement Instruments for the Defense and Aerospace Industries. It provides the highest quality COTS (Commercial Off-the-Shelf) and Custom products in Commercial, Extended Temperature and Full-Military versions. NAI is focused on delivering innovation, quality, and superior value for its customers. Additional information about NAI and its products can be found at the company's Web site at <http://www.naii.com>.

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Photo Attached

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