



**Embedded Boards • Power Supplies • Instruments**

170 Wilbur Place • Bohemia, NY 11716-2416

Tel: (631) 567-1100 • Fax: (631) 567 1823 • [www.naii.com](http://www.naii.com)

## **For Immediate Release**

**Contact:** Lou Garofolo  
North Atlantic Industries  
631-567-1100  
[lgarofolo@naii.com](mailto:lgarofolo@naii.com)

David Pinkowitz  
DCP Marketing Services LLC  
631-491-5343  
[dpinkowitz@dcpmarketing.com](mailto:dpinkowitz@dcpmarketing.com)

## **430 Watt AC/DC Power Supply Fits In Standard 6U VME Rack**

### ***High Power-Density, Low Profile Unit Designed for NAVMAT Compliance***

**Bohemia NY** -- North Atlantic Industries (NAI) has announced the availability of a high power-density, low profile, AC/DC VME and General Purpose Power Supply. The 56SQ1 provides 430 Watts of output power at full load, with an operating temperature range of -55°C to +85°C measured at the baseplate/wedgelocks. It provides the 4 outputs (plus a 5<sup>th</sup> standby output) typically used in VME systems. Its compact (2 slots wide) design allows for wedgelock or baseplate conduction cooling and is designed to be installed in a standard 6U VME rack. Optional ANSI/VITA power supply signaling is also available. With its low noise output and rugged design, the 56SQ1 is ideally suited for military and aerospace programs, including airborne, shipboard, ground mobile and C<sup>3</sup>I applications. The 56SQ1 is designed and manufactured to NAVMAT component derating guidelines and each unit receives ESS screening, including burn-in and temperature cycling. The unit includes EMI filtering per MIL-STD-461E and input transient protection per MIL-STD-1399.

The 56SQ1 has a universal input which operates from a 110Vac to 242Vac, 47 Hz to 440 Hz, single-phase source and provides outputs of +5 Vdc, +3.3 Vdc,  $\pm 12$  Vdc, and +5 Vdc (standby). Efficiency is 75% typical. The unit includes numerous fault protection features, including input transient protection, continuous short circuit protection (with automatic recovery), output current limiting, and output overvoltage protection. A Power Fail Warning is provided when the input is insufficient to provide full-power output. An Output Enable is provided to disable the DC Output. Additional features include remote error sensing and a 20 millisecond Holdup Time.

Pricing for 100 pieces of the 56SQ1 is \$3,340 each. Delivery is 12 weeks ARO.

"The 56SQ1 gives our customers a low profile AC/DC, VME compatible Power Supply in a compact, rugged package" said Lou Garofolo, Technical Sales Engineer at NAI. "They particularly like its built-in EMI Filtering, transient protection, fault protection, and NAVMAT design compliance."

### ***North Atlantic Industries***

Founded in 1955, North Atlantic Industries (NAI), an ISO 9001:2000 certified enterprise, 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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