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Behlman power supplies help extend useful life of U.S. Navy UYQ-21(V) Display System Consoles

***High-voltage Model 94020 and Low/Medium-voltage Model 94053 power supplies
replace OEM units to prevent system obsolescence.***

Hauppauge, New York, August 3, 2011 – Behlman Electronics, Inc., known for its leadership in providing power products for military, industrial, and commercial applications, is helping the U.S. Navy keep its UYQ-21(V) display systems operational by manufacturing and supplying replacement power supplies.

About the UYQ-21(V) Display System

These displays are used with the computer display systems for surface ships. Since the initial procurements for the U.S. Navy began in 1982, the UYQ-21(V) U.S. Naval Tactical Display System (NTDS) console has been the standard for many of the U.S. Navy's surface vessels. U.S. ship classes that have been equipped with the UYQ-21(V) include the CG-47 Ticonderoga class AEGIS cruisers; DDG-51 Arleigh Burke class AEGIS destroyers; FFG-7 Oliver Hazard Perry class frigates; LHD-1 Wasp class amphibious assault ships; and CVN-68 Nimitz aircraft carriers. It is estimated that more than 3,500 consoles were produced before production stopped in 2002.

The Behlman Form-Fit-Function COTS High Voltage Power Solution

Behlman was called upon to help solve the problems caused by the increasing failure of aging power supplies that are no longer supported by the original manufacturer. For this task, Behlman adapted its Model 94020 high voltage COTS power supply to match the size, shape and performance requirements of the Navy's UYQ-21(V) display system. After laboratory tests were completed at Behlman's design and manufacturing facility in New York, units were tested at several Navy facilities and aboard US Navy combat ships.

The success of these tests led to approval of the Behlman 94020 design, and production is now underway.

The Behlman 94020 power supply operates from a +28 VDC input and supplies four high-voltage outputs at voltages up to 25,000 VDC to power the color CRT display. Although a COTS product, and therefore able to save the U.S. Navy substantial design and engineering development costs, the Behlman 94020 is a rugged design well-suited to withstand the rigors of shipboard combat operations.

The Behlman Form-Fit-Function COTS Low/Medium Voltage Power Solution

After experiencing the success of Behlman's high-voltage solution for their UYQ-21(V) display systems, the Navy asked Behlman for a form-fit-function replacement for a low/medium voltage power supply in the same system.

Behlman was able to respond quickly with its Model 94053 low/medium-voltage power supply, which has now been tested at Behlman's laboratory, at Navy facilities, and aboard U.S. Navy combat ships. This 400-watt, eight-output unit supplies 5 VDC to 200 VDC to power a number of electronics in the UYQ-21(V) console, including the 28 VDC input to the Behlman 94020 high voltage power supply. Production is underway.

Behlman Electronics, Inc. (www.behlman.com), a subsidiary of Orbit International Corp., manufactures and sells high-quality standard, modified standard, custom and COTS power solutions, including AC power supplies, frequency converters, inverters, DC-DC, AC-DC, and DC-AC power supplies, and UPS (uninterruptable power supply) units. Behlman's COTS division provides power consultations, at no charge, for government contractors and industrial and commercial organizations worldwide.

Orbit International Corp., (www.orbitintl.com), based in Hauppauge, New York, is involved in the manufacture of customized electronic components and subsystems for military and nonmilitary government applications. Other subsidiaries include Orbit Instrument, Tulip Development Laboratory, and Integrated Combat Systems.

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Behlman adapted its Model 94020 high voltage COTS power supply to match the size, shape and performance requirements of the Navy's UYQ-21(V) display system.



Behlman Model 94053 low/medium-voltage power supply will power a number of electronics in the Navy's UYQ-21(V) console, including the 28 VDC input to the Behlman 94020 high voltage power supply.