



FEATURES

- Water-Cooled
- Hot Bus Plug-In
- Output Configured to Your Needs
- Three Phase Operation (Single Phase Available)
- Parallelable
- Soft Switching Minimizes Output Harmonics
- Power Factor Corrected
- N+1 Redundant Operation
- RS232/485 Compatible

OVERVIEW

The Water-Cooled AC-DC Power Supply was designed for use on a military shipboard application, but is ideal for severe commercial/industrial environments where forced air convection is not an option. Water-Cooling offers an outstanding alternative over forced air-cooled designs where environmental conditions preclude the use of fans. Power supplies cooled by water have higher power densities and do not require external heat exchangers. The status of the power supply will be displayed on the control panel via an LCD display through a RS232/485 interface. Blind mating modules allow for easy hot bus plug-in of the power modules without interrupting the power bus or system operation. Designed for maximum accessibility and modularity in order to permit future upgrades. Tailored configurations are available for unique applications.

SPECIFICATIONS

ELECTRICAL

Input: 440VAC, 60Hz, 3 phase

Custom voltages available

Output: Custom voltages available

Power: 5kW per module (Parallelable)

N+1 Redundant Operation

Ripple: <110mV pk-pk, 20MHz Bandwidth

Efficiency: 83% min. at full load, nominal

Power Factor: 0.98 min.

Protection: Input Under/Over Voltage

Output Overload

Output Short Circuit

RELIABILITY

MTBF: Exceeds 100,000 hours

AGENCY COMPLIANCE

EMI: Radiated and conducted noise on the input meets FCC Part 15, Subpart J, Class A, and VDE0871, Class A.

Safety: UL, CSA

MECHANICAL

Dimensions: (per module): 5.3"W x 16.4"L x 9.3"H

Weight: (per module): <40 lbs.

ENVIRONMENT

Operating Temperature: -40°C to +70°C

Humidity: 0% to 95% non-condensing

Cooling: Water-Cooled

Vibration: Per MIL-STD-167

Shock: 30G 11ms half sine pulses

Operating Altitude: -1000 ft. to +10,000 ft.

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