

DEGAUSSING SYSTEM

L3Harris' Degaussing System (DS) provides controlled current to six independent degaussing coils embedded throughout the hull of a ship.

The DS provides the precise current required to generate a composite magnetic field to minimize the ship's magnetic signature. These generated fields are produced by passing direct current through each degaussing coil.

The DS consists of two controllers that communicate to the ship's degaussing computer via copper ethernet, one human machine interface (HMI), one uninterruptable power supply (UPS) and six bipolar amplifier (BPA) power supplies.

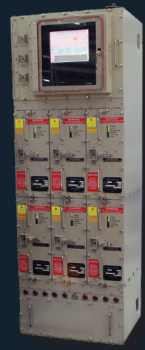
The HMI controller is used to test, calibrate, configure, view and manage faults.

The BPA's high fidelity current amplifiers produce controlled precise current to the ship's degaussing coils.

Available power rating for the BPA's power supplies is 8.7 kW.

FEATURES

- > Rack mounted interchangeable BPAs
- > Precise current control
- > Automatic control
- > Local HMI manual control and monitoring
- > Ground fault monitoring
- > Overheating protection
- > EMI compliant
- > LED BPA status indicators
- > Redundant controllers
- > Five-minute controller backup power
- > Low input voltage compensation



APPLICATIONS

- > Shipboard degaussing

SUPPORT SERVICES

- > Installation
- > Field service
- > Training
- > Documentation and provisioning

MILITARY SPECIFICATIONS

- > Shock: MIL-S-901D Grade A Class 1 Type A
- > Vibration: MIL-S-167-1 Type 1
- > EMI: MIL-STD-461

PHYSICAL CHARACTERISTICS

- > 70.00" height x 23.87" width x 27.59" depth (177.80 cm height x 60.63 cm width x 70.08 cm depth)

FUNCTIONAL RATING

- > Input power: 375 VDC \pm 8%
- > Output power: \pm 350 VDC \pm 24 AMPS
- > Output ripple: <240 mA
- > Continuous duty output response speed: \geq 5 degrees per sec
- > Accuracy: \pm 120 mA of commanded current

