L-3 Power Paragon’s Advanced Degaussing System (ADS) provides controlled current to independent degaussing coils embedded throughout the hull of a ship.

The Bipolar Amplifier Units (BPAU’s) provide precise current required to create composite magnetic fields that oppose and neutralize the ship’s magnetic signature as it moves across the waters. These fields are formed by the BPAUs controlling the polarity and intensity of current flow through each degaussing coil. The BPAU’s monitor their functional status and status of the coils they are driving.

A separate Advanced Degaussing System Computer (ADSC) processes data received from the ships navigation system for use in computing the control and current commands for each BPAU. The ADS utilizes a preprogrammed ship control system task, monitors the status of the ship’s ADS, shuts down failed components and compensates for the loss of any BPAU. The BPAU’s are monitored and controlled from an HMI screen in the Machinery Control and Monitoring System (MCMS). The BPAU’s can also be individually controlled and calibrated from a separate Calibration Test Computer (CTC).

Available output power rating for the BPAU power supplies is 10.8 kW.

FEATURES
• Bulkhead mounted modular construction
• Modular construction to facilitate inspection and maintenance
• Precise current control from maximum current to milliamps
• Automatic control
• High efficiency
• Overheating protection
• Drip proof enclosure
• LED BPAU status indicators
• Low harmonic distortion
• Voltage spike suppression
• High frequency switching
• Galvanic isolation
• Soft start to limit inrush current

APPLICATIONS
• Shipboard degaussing

SUPPORT SERVICES
• Installation
• Field Service
• Training
• Documentation and provisioning
**Advanced Degaussing System (ADS)**

**Product Description**

**Military Specifications**
- Shock: MIL-S-901D Grade A, Type A, Class 1
- Vibration: MIL-S-167-1 Type 1
- EMI: MIL-STD-461E
- Electrical: MIL-STD-1399 section 300A

**Physical Characteristics**
- Width: 18.5 Inches (47 Cm)
- Height: 23.75 Inches (60.3 Cm)
- Depth: 15.86 Inches (40.6 Cm)
- Weight: 190 Lbs (81.6 Kg)
- Ambient Temperature: 0-50°C
- Ambient Humidity: 0-100% condensing

**Functional Ratings**
- Input Power: 440 VAC ± 10% 60Hz 3 phase 12kW
- Input Power Factor: 0.98 lead to 0.98 Lag
- Output Power: ± 650 VDC ± 19.2 AMPS ± 0.5%
- Output Ripple: <96 mA
- Continuous Duty
- Output response speed: ≥ 5 degrees per sec
- Input voltage spike suppression: ≤ 2500 Volts

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