



Advanced Degaussing Amplifier

Features

- Ethernet, RS-422/485 or PROFIBUS
- Local On/Off circuit breaker
- Integral Battery Backup for all control functions
- Forced-air cooling using redundant fans
- Thermally protected and monitored
- Controlled current “ramp-down”
- Parallel operation capability

Ultra Electronics, EMS' highly compact, IGBT bipolar amplifier was designed to meet stringent US Mil-Spec and Defense Standards for naval applications. It has successfully been tested and qualified to US Mil Specs. It is installed on the Littoral Combat Ship, USS Freedom.

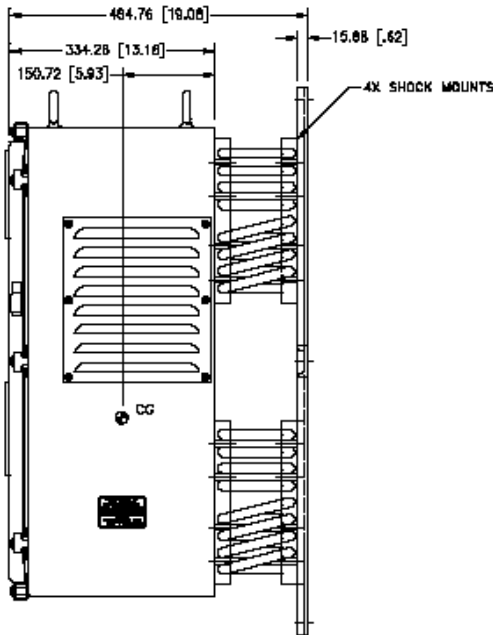
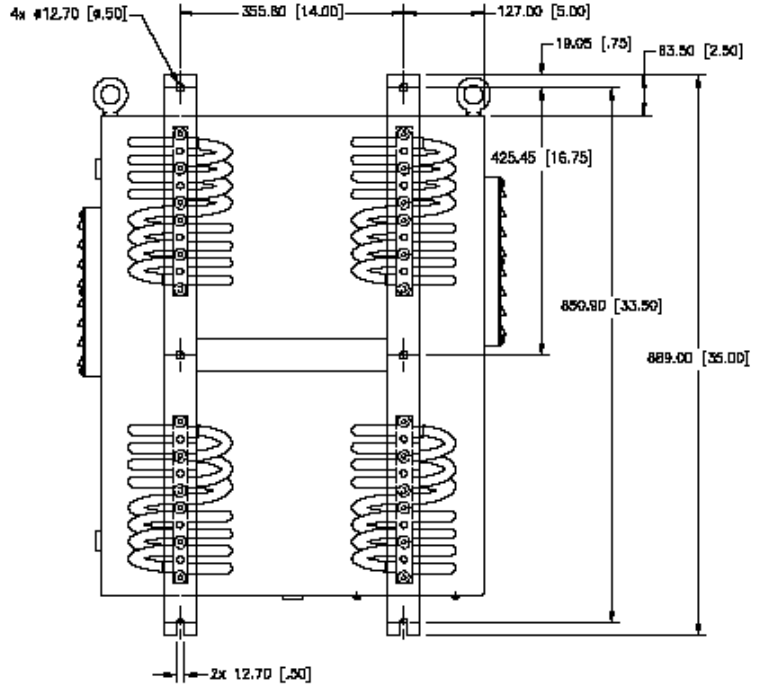
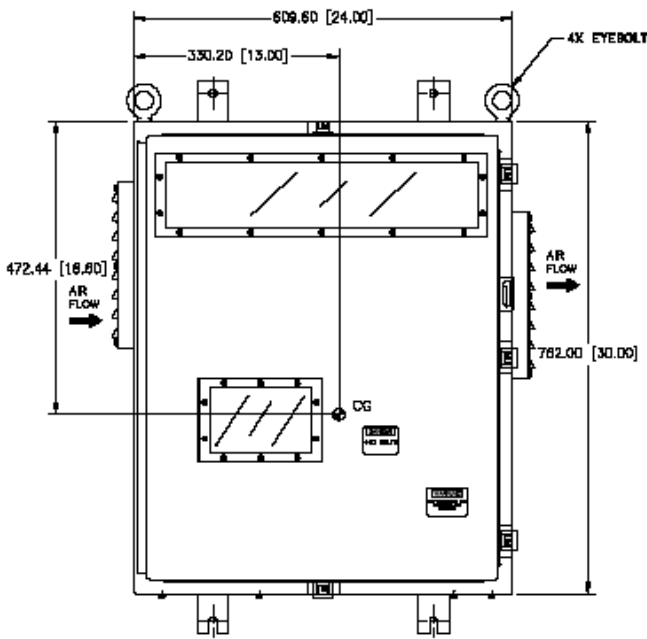
The ADG amplifier is capable of providing DC current with extremely low ripple with exceptional accuracy. This amplifier may be used as a standalone, flexible current source, or as part of ADG system driving purely resistive loads or reactive loads up to 1H.

Ultra Electronics, EMS has many years of experience working with UWEM signature standards, requirements and specifications for the US Navy, UK Royal Navy, NATO, Republic of Korea Navy and other international bodies. This experience together with FEMAP design and analysis software suite enables EMS to offer UWEM signature management services that are tailored, both in cost and time, to the various phases of design, development and construction of ships and submarines.

Description:

- High efficiency 15-phase power transformer for low input current harmonics. Meets MIL-STD-1399 Section 300 A and STANAG 1008 ed. 8
- High efficiency “Class D” amplifier topology
- Local operation setting with digital current readout
- Ruggedized “COTS” Single Board Computer Control
- Integral Active Ground Fault Detection Capability
- Simple, low-cost modular construction
- 12 kW continuous (400Vdc @ 30ADC) option available in same size enclosure

Mechanical Dimensions:



Mechanical Dimensions:

Input:	440V, 3PH, 60Hz (ungrounded) MIL-STD-1399 Section 300A STANAG 1008 Edition 8
Output:	400Vdc, 20ADC
Rating:	8kW Continuous @50C 110% overload
Isolation:	2.5kVrms Input to Output 2.5kVrms Input to Ground 2.5kVrms Output to Ground
Efficiency:	> 90% at rated power
Environment:	Temp: 0°C to 50°C Humidity: 0 to 95%, non cond. Vibration: MIL-STD-167-1 Shock: MIL-S-901 D EMI: MIL-STD-461E
Physical:	Length: 30.0" (762.00mm) Width: 24.0" (609.60mm) Height: 13.2" (334.26mm) Weight: 378lb (172kg) with isolation mounts Enclosure: Drip proof to 45Deg Cooling: Forced-air (with redundancy)



Ultra Electronics
 EMS Development Corporation
 95 Horseblock Rd. Unit 2
 Yaphank, NY 11980
 U.S.A.
 Tel: +1 631 345 6200
 Email: info@ultra-ems.com
 www.ultra-ems.com
 www.ultra-electronics.com

Approved for Public Release; Distribution is Unlimited. Department of the Navy, Naval Sea Systems Command 5720/00DT 2009-0485
 Ultra Electronics reserves the right to vary these specifications without notice.
 © Ultra Electronics 2010. Revised Oct 10th, 2015