The 35kW Converter is designed for the installation on surface vessels. The main purpose of the converter is to convert the main input voltage of 440VAC±15%, 3ph. acc. to STANAG 1008e to a regulated, high quality AC output voltage of 115V, 3-phases adjustment ±3%, 400Hz crystal controlled with galvanic insulation as required for sensitive equipment like electronic controls or weapon systems. The 35kW converter is able to supply an overload of 50% for 5min. minutes. The output is equipped with a short-circuit protection with constant current behaviour and provides an output short current of approx. 2x nominal output current for 30 sec. in erroneous load conditions. Switch-off time was calculated for burning out respective load fuses and for protecting the cabling of the ship.

**Key features of the Converter:**

- Automatic paralleling detection
- Load sharing control
- Multifunction LCD panel
- 3-phase IGBT power stage
- Monitoring Panel and build in fault detection
- 50% Overload and short circuit protection
- Design according to DNV, GL, STANAG 1008 / MIL-STD 704F
- ILS Documentation
- 15 Years Spare Parts
Static Frequency Converter 35kW

## Electrical Specifications:

**Input**
- Voltage: 440 V, 3-phase acc. to STANAG 1008 e8
- Frequency: 60Hz +/- 5%
- Current: approx. 51A at 440V and nominal load

**Output**
- Output specification: acc. STANAG 1008e
- Voltage: 115VAC, 3-phase adjustable by +/- 3%
- Frequency: 400 Hz with < 0.1% tolerance
- Power: 35 kW
- Overload: 50% for 5min., 200% for 30sec.
- Power Factor: >0.9
- Efficiency: >90%

## Physical Characteristics:

- Dimensions: H = 1,412 mm, W = 610 mm, D = 505 mm
- Weight: 390kg +/- 5%

## Design Characteristics:

- Design: Modular
- MTBF: > 18,000 h
- MTTR: < 1 h
- Design standard: DNV, respectively GL, Electrical, GL III-1-3a

## Environmental Specifications:

- Temperature Range: 0° C to 50° C
- Storage Temperature: -25° C to +70° C
- Humidity: nom. 85% max. 95% for 1h non condensing
- Shock: Acc. to BV 0430
- RFI / EMI: acc. to EN55011 and EN61000
- Insulation Class: acc. to VDE 0110, Part 1
- Protection: IP 23

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## Block diagram:

[Diagram of static frequency converter]

## Onboard assembly:

[Image of onboard assembly]

## Optional Monitoring Panel:

[Image of optional monitoring panel]

Specification subject to change without notice

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