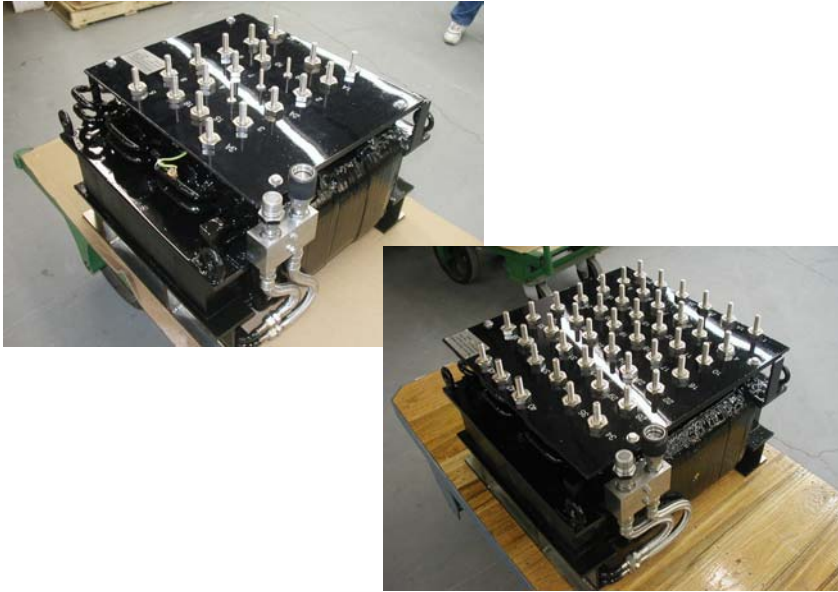


## MAGNETICS

### POWER TRANSFORMERS - 18 PHASE AC/DC CONVERTER - Navy AEGIS Weapon System



Espey Mfg. designed and manufactured this set of power transformers for a prime military contractor. The transformer design employs a proprietary heat exchange configuration which enables the transformer size and weight to be condensed to that specified.

The transformer provides isolation and rectifier duty phase displaced low voltage, high current outputs.

#### Features:

- 950kVA average power
- 36 pulse converter application
- Liquid Cooled
- Modularized approach
- Weight: 3050lbs total system

#### Qualifications:

- Shock Withstand: MIL-S-901D
- Vibration: MIL-STD-167-1 (Shipboard)

#### Specifications:

##### Electrical Specifications

- **Input:** 440VAC, 60Hz, 3 phase in accordance with MIL-STD-1399/300A
- **Output:** 300VDC
- **Ratings:** 950kVA total

*Tightly coupled secondaries, impedance balanced facilitate equal current sharing in rectifying sections of the converter.*

##### Mechanical Specifications

- **Coolant:** Liquid (EGW) Cooled @ 3GPM
- **Insulation system:** 200°C
- **Total system weight:** 3050lbs
- **Shock Withstand:** MIL-S-901D
- **Vibration:** MIL-STD-167-1 (Shipboard)

Rev. A