

## MAGNETICS

### POWER TRANSFORMER ASSEMBLY - *Liquid Cooled* - *12 Phase, 1MVA Converter*



Espey Mfg. designed and manufactured this power transformer assembly 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 assembly includes medium voltage switchgear, and low voltage fusing, current sensing, and transient voltage protection.

#### Features:

- 1000kVA average power
- 24 pulse converter application
- Medium Voltage (4160V, 3 phase, 60Hz Input)
- Liquid Cooled
- Sealed Enclosure per MIL-E-2036
- Weight: 4500lbs
- EMI Shielded

#### Specifications:

##### *Electrical Specifications*

- **Input:** 4160V, 60Hz, 3 Phase
- **Output:** 12 phase, 150V, 15degree positive phase displacement, 840AMP  
3 phase, 208/120V, 42AMP
- **Rating:** 1000kVA Total continuous

##### *Mechanical Specifications*

- **Weight:** 4500lbs
- **Size:** 84L x 32D x 72H
- **Insulation System:** 200°C
- **Coolant:** De-ionized water at 7GPM
- **Shock:** MIL-STD-202, method 213B, test A
- **Vibration:** MIL-STD-202, method 204D, test A, f<500Hz
- **Enclosure:** Sealed per MIL-E-2036  
Bulkhead Mounted  
EMI Shielded/Sealed

Rev. A