The Power Paragon PS462 Transformer/Rectifier Unit (TRU) converts aircraft primary AC power to 28 VDC power, from a three-phase, 115 volt, 400 Hz generator per MIL-STD-704. Designed for minimum space and weight, and maximum reliability, it offers excellent versatility for use in new designs or retrofits.

The TRU design is based on a very simple, time proven concept, using extremely rugged components, which produce both high reliability and extreme overload capabilities of 1200% (2400 amps).

Power Paragon TRUs provide inherent power factor correction on the input lines and low input current harmonic content. These features reduce the demands on the aircraft power generation systems. The output power meets the requirements for 28 volt systems per MIL-STD-704.

This unit is designed to meet the requirements of MIL-C-7115/2B.

**STANDARD FEATURES:**
- Selected units are QPL devices
- Inherently rugged design
- No maintenance required
- High output surge capability
- Excellent power factor
- Low harmonic content on input current waveform
- EMI filters on all input and output lines
- Output power conforms to MIL-STD-704 requirements

**APPLICATIONS:**
- Emergency 28 volt power
- 28 volt aircraft bus
**Static Inverters**

**BASIC SPECIFICATIONS**

**ELECTRICAL CHARACTERISTICS:**

**Input**
- Power: 115/200 V, 400 Hz, 3-ph
- Voltage: 112.5 Vrms to 117.5 Vrms
- Frequency: 400 Hz, ±20 Hz

**Output**
- Voltage: 28 VDC nominal, 25 VDC to 32 VDC over full input voltage range and 2A to full load
- Current: 200 A continuous
- Overload:
  - 500% rated current, 1 sec.
  - 250% rated current, 1 min.
  - 200% rated current, 5 min. followed by 50% load for 10 min.
- Ripple: 0.53 V peak to peak
- Efficiency:
  - 80% min. from 25% to 50% load
  - 85% min. from 51% load to full load
- EMI: Conforms to MIL-STD-461, CE03 (150 kHz to 50 MHz) with relaxation of 10 dB from 150 kHz to 2 MHz, RE02 (150 kHz to 1 GHz), CS02 (50 kHz to 400 MHz), RS03 (14 kHz to 400 MHz)
- Temperature/Altitude: Sea level to 50,000 ft., -55°C per MS33543, Curve II
- Vibration: Per MIL-STD-810, Proc. 1A, Method 514.2, except broadband test is not required
- Weight: 17.5 lbs. max.

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