DESCRIPTION

This field proven Transformer Rectifier Unit (TRU) can deliver 150 amps of power in an unpressurized environment or up to 200 amps in a pressurized environment.

This design has been successfully operating in the field since 1997 and has an MTBF of greater than 50,000 operating hours. Already in use on business jets, this upgraded unit is finding new uses aboard many different platforms and can reliably provide you with the power that you need for your system.

This TRU is one of many that Crane Aerospace & Electronics provides as the world’s leading supplier of TRUs and ATRUs for commercial aircraft. We offer field proven, exceptionally reliable power solutions for both commercial aerospace and military applications.

TECHNICAL FEATURES

- 115 Vac 3 phase 400 Hz input
- 28 Vdc output power
- 200 A in a pressurized environment,
  150 A in an unpressurized environment
- >50,000 MTBF

PERFORMANCE

Developed to meet RTCA/DO-160C & G

APPLICATIONS

Aircraft DC Bus Power

TECHNICAL FEATURES

- 115 Vac 3 phase 400 Hz input
- 28 Vdc output power
- 200 A in a pressurized environment,
  150 A in an unpressurized environment
- >50,000 MTBF
### PERFORMANCE DATA

#### INPUT
- **Input Voltage:** 115 Vac L-N / 200 Vac L-L, 3 Phase wye, Neutral not connected
- **Input Frequency:** 324-596 Hz
- **Input Current (at full load):** 20 A\textsubscript{rms} max @ 200 A load, 25 °C ambient, sea level
- **Power Factor:** >95% (50 to 100% load)
- **Efficiency:** 85% at 200 A load
  86% at 150 A load
- **Current THD:** 13% @ 200 A output
  15% @ 150 A output

#### OUTPUT
- **Output Voltage:** 28 Vdc (nominal)
- **Output Power:** 200 A continuous, pressurized
  150 A continuous, unpressurized
- **Output Ripple:** 2.4 Vp-p
- **Overload Rating:** RTCA/DO-160C, Paragraph 2.1
  - 300 A for 1 minute
  - 600 A for 12 seconds

#### INTERFACE
- **Dimensions:** (not including external hardware)
  - Length: 13.0 inches (330.2 mm)
  - Width: 6.99 inches (177.6 mm)
  - Height: 5.0 inches (127.0 mm)
- **Weight:** 15.6 lbs (7.1 Kg)
- **Cooling (fan failure signal provided):** Internal Fan
- **Connections:**
  - Input: D38999/20FE6PN
  - Output: MS25044-1

#### ENVIRONMENTAL
- **Nominal Load, 200 A**
  RTCA/DO-160C, Section 4
  -40 to + 70°C at sea level
  25°C at 20,000 ft
- **Reduced Load, 150 A**
  RTCA/DO-160C, Section 4
  -40 to + 70°C at sea level
  25°C at 25,000 ft
- **Ground Survival:** RTCA/DO-160C, Section 4
  -55 °C to +85 °C

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