



AC-DC TRANSFORMER RECTIFIER UNIT

HIGH RELIABILITY SOLUTION

Military Aerospace TRU converting 3-phase 200V/115V 400Hz AC power into a single highly regulated 28V, 250A DC output that is then supplied to medium and high integrity consumer loads on an Advanced Jet Trainer Aircraft. Currently in service following a successful qualification testing campaign and flight certification in 2019.

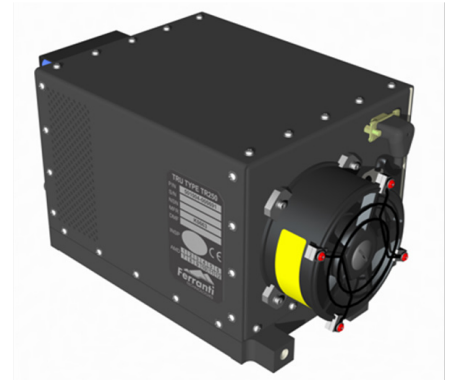
Key Features:

- AC-DC
- Forced Air Cooled
- REACH/RoHS Compliant Coatings
- EMC to MIL-STD-461E
- Environmental to BS.3G.100 and DEF STAN 07-55
- Power Quality to BS.3G.100
- Provides DC Power to all the Aircraft's DC Consumers and Trickle Charges Two Batteries
- Rated at 7kW
- Hardware BIT and Trip Isolation (Overtemp/Open Phase/Overcurrent)
- Low-loss Synchronous Rectifier Technology Deployed
- Operating Environment of -30°C to +75°C
- Service Altitude of 48kft

Electrical Performance:

- Rated at 7kW
- AC Input: 115 V, 3-Phase, 400Hz
- DC Output: 28V, 250A (with Tap Change)
- 300% Overload Capability
- Output Regulation <1.5V
- Efficiency 91% (Full Load)

www.ttelectronics.com



We design, manufacture and test single and three-phase AC-DC power supplies for high reliability and harsh environment applications.

For further information on our full product portfolio, please email us at: powersales@ttelectronics.com