



HIGH RELIABILITY AC-DC CONVERTER

SAFETY CRITICAL SOLUTION

Civil certified aerospace PSU providing multiple 28V supplies to the digital flight control system for use on a business passenger jet. Currently awaiting formal flight certification after a recently successful qualification campaign.



Key Features:

- AC-DC Conversion
- Convection Cooled
- Design Assurance to DO-254 DAL A
- EMC to DO-160G
- Environmental to DO-160G
- Power Quality to DO-160G (DC input) and MIL-STD-704F (DC output)
- Hardware PBIT and CBIT with Health Status relayed to aircraft cockpit and maintenance panel
- Operating environment of -55 °C to +80 °C
- Service altitude of 51kft

Electrical Performance:

- Rated at 420W continuous
- Dual input (Variable Frequency 3-Ph AC and fixed 28V DC)
- AC Input Range: 102 V-237 V and 1254 Hz-2903 Hz
- 4 isolated DC outputs (PMA-derived and aircraft 28V)
- Efficiency 89% - 90% (full load)

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