

DO 160G COMPLIANT DUAL REDUNDANT 68W POWER SUPPLY MODULE

Overview

Power supply is having isolated 3 outputs with redundant power board supply and hold up capacitor.

Key Features

- 68W main and redundant power supply
- 50ms Holdup time capacitor
- Converts 14V DC to nominal DC outputs (+/- 5V DC, +/- 8V DC)
- Efficiency >85%
- Inbuilt EMI
- Dual Fan output drivers
- 2kV isolation between input and outputs

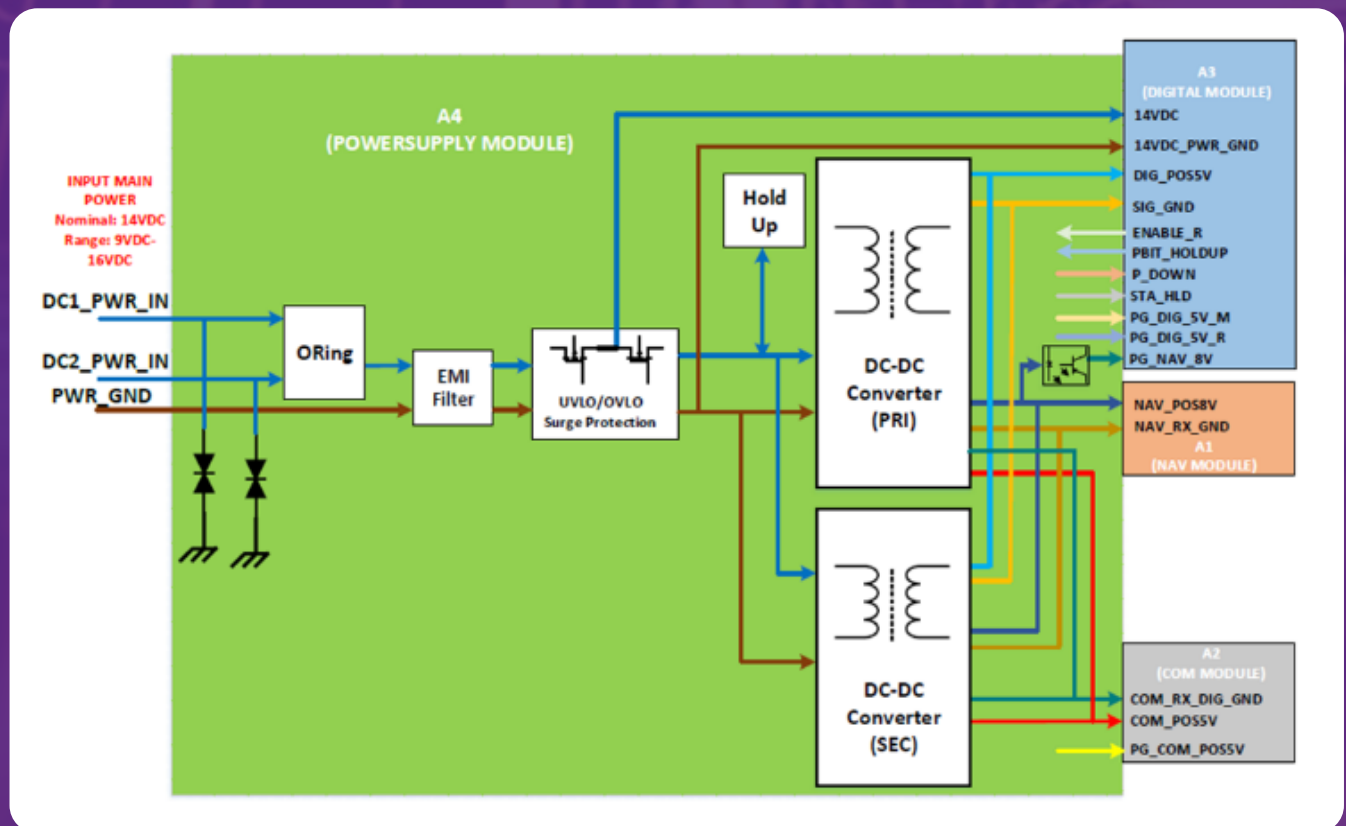
Dimension

189mm x 145.58mm x 21.65mm

Technical Specifications

- 3 Isolated outputs of 5V/6A, 8V/1.5A and 5V/1.75A.
- Current controlled Push Pull topology for isolation.
- Input requirements as per the DO-160G for 14V DC.
- Efficiency greater than 85%.
- Holdup time greater than 50ms.
- ORing input circuit for Dual aircraft input supply.
- Dual Fan driver circuit for 12V 0.6A and Fan tacho status output.
- Ripple output less than 1%.
- Line and load regulation less than 5%.
- Meeting EMI/EMC requirements as per the DO-160G.
- Input over current over voltage and under voltage protection.
- BITE outputs for monitoring health of the board.
- ROHS compliant.

Block Diagram



Benefits

- Overall "Low cost of ownership" to the customer due to
- Compact power supply module for aircraft application.
 - Includes the holdup capacitor inbuilt on the board.
 - Inbuilt EMI/EMC filter.

Our USP

- Triple output with good power quality
- Redundant converter with power good signals

Case Reference

- Good efficiency
- ROHS compliant

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