

PRODUCT BRIEF

60W REDUNDANT POWER SUPPLY



The Redundant DC Power Supply consists of two identical DC-DC switching converters and a low-loss (ideal diode) power combining stage. It is intended as a high-reliability source of power for mission critical UAVs sub-systems.

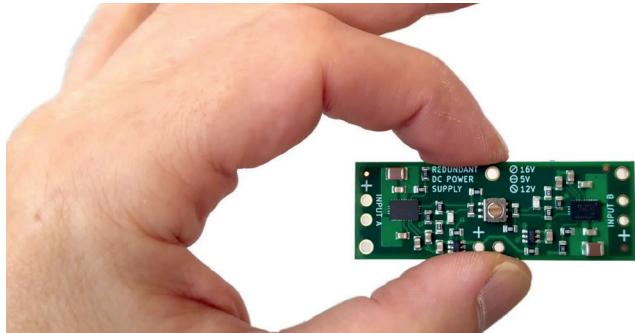
FEATURES

- low weight
- small form-factor
- redundant output
- operates from battery voltages of 2.5 to 50 VDC
- user-selectable output voltage
- Weight: 13g
- Dimensions: 57 x 20 x 9.2mm

OPERATIONS

The output voltage may be set to 5, 12 or 16V using the on-board switch and a screwdriver. Inputs are reverse polarity protected, and the input voltage range extends to +50VDC, allowing direct connection of LiPos up to 12S.

Each DC-DC converter is capable of delivering up to 3 Amps continuously with up to 96% efficiency. The output tolerates a short-circuit to ground indefinitely.



SPECIFICATIONS IN BRIEF

ELECTRICAL

Input voltage	+2.5 to 50 VDC, (absolute max. -60 to +60 VDC)
Output voltage	5, 12 or 16 VDC, user selectable via 3 position switch
Output current	3 Amps continuous (60W, thermal de-rating applies)
Quiescent current consumption	5mA maximum (per converter) over operational input

MISCELLANEOUS

Thermal resistance (device to ambient)	23°C/W (temperature rise per Watt of dissipated power in still air)
Operating temperature range	-40°C to +55°C
Maximum device temperature	105°C
Weight	30g
Dimensions	57 x 20 x 9.2mm
Mounting	3 x 2.1 mm diameter holes, sized for M2 screws),
Connections	3 pairs of 1.65mm diameter through-holes, suitable for direct

