

PRODUCT BRIEF

**60W  
REDUNDANT  
POWER  
SUPPLY**



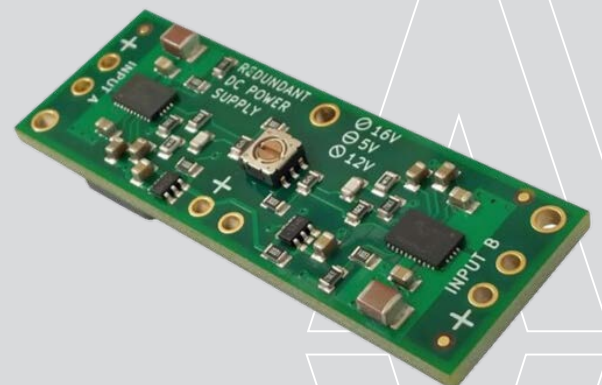
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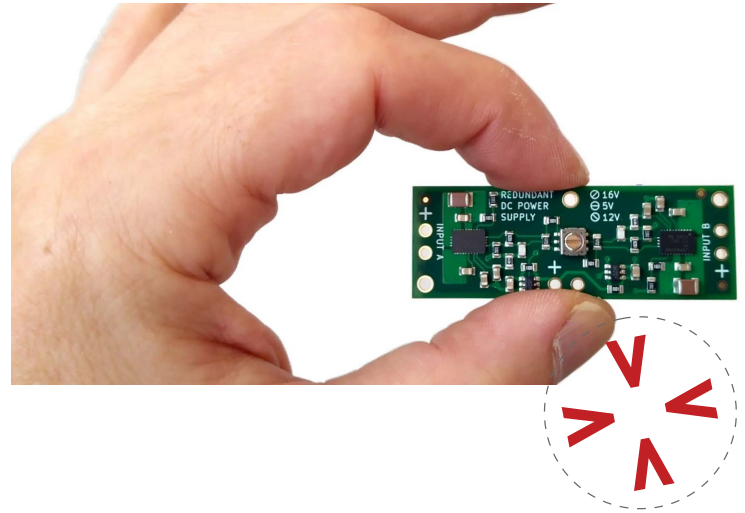
**W** www.vat.aero



**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 UAV sub-systems.**

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.

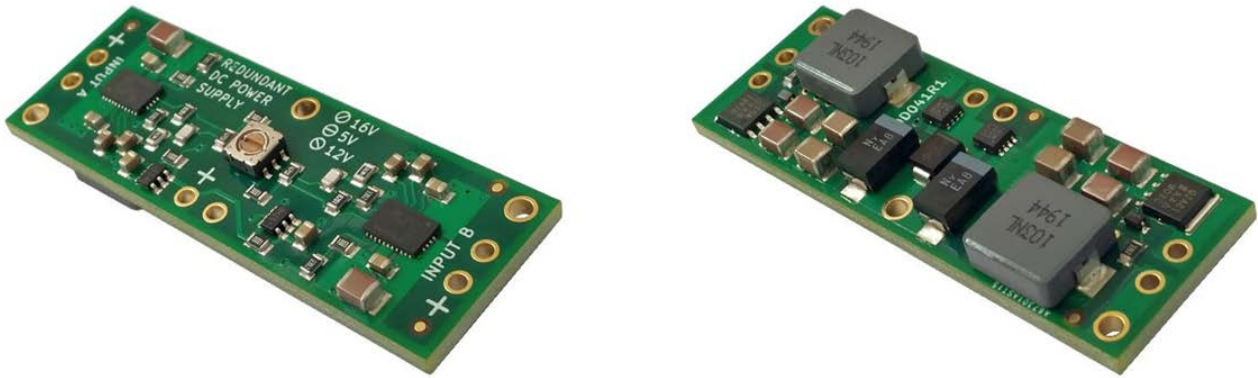


## FEATURES

- low weight
- small form-factor
- redundant output
- operates from battery voltages of 2.5 to 50 VDC
- user-selectable output voltage

FEATURES





60W RPS board

## SPECIFICATIONS IN BRIEF

### Electrical

|                                      |  |
|--------------------------------------|--|
| <b>Input voltage</b>                 | +2.5 to 50 VDC, (absoute max. -60 to +60 VDC)                    |
| <b>Output voltage</b>                | 5, 12 or 16 VDC, user selectabel via 3 position switch           |
| <b>Output curent</b>                 | 3 Amps continuous (thermal de-rating applies)                    |
| <b>Quiescent current consumption</b> | 5mA maximum (per converter) over operational input voltage range |

### Miscellaneous

|   |  |
|---|--|
| <b>Thermal resistance (device to ambient)</b> | 23°C/W (temperature rise per Watt of dissipated power in still air)              |
| <b>Operating temperature range</b>            | -40°C to + 55°C  |
| <b>Maximum device temperature</b>             | +105°C   |
| <b>Dimensions</b>                             | 57 x 20 x 9.2 mm   |
| <b>Weight</b>                                 | 13g  |
| <b>Mounting</b>                               | 3 x 2.1 mm diameter holes, sozed for M2 screws), located on 15 x 26 mm grid      |
| <b>Connections</b>                            | 3 pairs of 1.65mm diameter through-holes, suitable for direct soldering of wires |

