

Select Aerospace Technologies Ltd

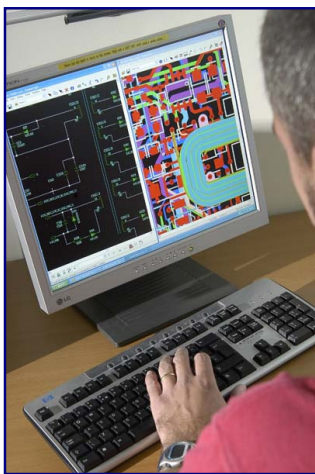
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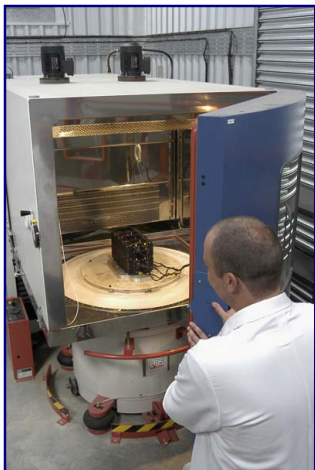
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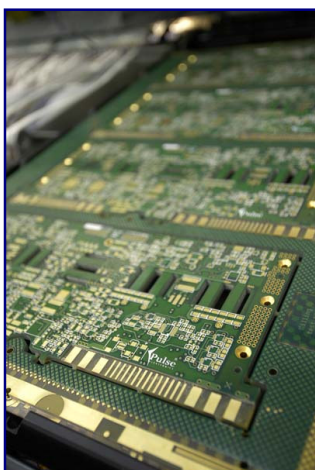
Pulse Electronics is an established supplier of custom power management systems. Their products, as major system elements, have been installed onto a wide range of military platforms including armoured vehicles, fixed and rotary wing aircraft and high velocity missiles. More recently Pulse have developed products for the civil aviation field.

The following product portfolio includes designs developed for the defence, aerospace, communications and scientific markets.

- DC/DC Converters (Single/multi-output) with Modes Power Supplies.
- Linear AC/DC and DC/DC Power Supplies.
- DC/AC Inverters.
- Energy Storage (UPS) Modules.
- Intelligent Battery Management Systems.
- Battery Chargers.
- Surge suppression and input filtering modules.
- Processor cards with embedded software.



A designer and manufacturer of high efficiency custom Power supply products and Power management systems, VME Power supplies, Battery chargers and Battery Management Systems for the Aerospace and Defence industry. The company is registered to ISO BS EN 9001: 2000 and enjoys preferred supplier status with a number of key industry leaders.



Pulse Electronics also provides a complete sub-contract manufacturing service to major Defence and Aerospace customers. Offering prototype and production electronics assembly and Built to Print capability.

Pulse's engineering provides electronic and mechanical design, printed circuit board layout, drafting and technical support, during all development phases, system integration and throughout the lifetime of the product. A high degree of software design tools are readily used for thermal and vibration modeling in particular.

In-house facilities for environmental evaluation and qualification are available for temperature, vibration, and initial EMC examinations. Sub-contract facilities are used where appropriate to support qualification test programs.

VME Format Power Supplies

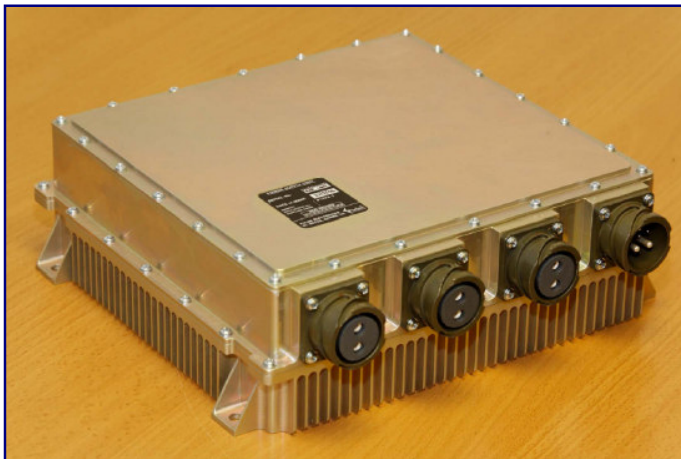


A range of rugged VME format high-reliability power supplies engineered to meet the most demanding military and aerospace applications. Housed in a single slot plug-in 6U package the advanced design utilises planar technology for optimum reliability consistent with a lightweight and low-profile outline. The modular topology approach ensures optimum application flexibility by being factory configurable to offer optional ac/dc input and multiple power output configurations (e.g. 5V, $\pm 12V$, 3.3V, 5V standby) to 500W.

PULSE POWER SUPPLY - MPDC-750W (DEF-STAN 54-41 Land Class A)

- NATO Stock Number (NSN) : 6130-99-789-8939

The Unit has been approved for use on **all UK MOD vehicle types** for communication equipment.



- Compact and lightweight
- Integrated in-board planar technology
- High Efficiency
- Wide low input range (18-32 VDC)
- Over-voltage and over-current protection
- 3 independent power blocks configurable for current sharing
- Conformally coated with Humiseal 1B31
- Anti-vibration compound
- Excellent EMC performance
- Designed for Military and Aerospace environments
- Fully meets DEF-STAN 54-41 Land Class A with filters included (Photo on the left)
- Specific BITE Alarms option: N+1 true redundancy, Over temperature protection and Battery Charger Option available

General specifications:

DC input voltage	: 18-32 volt
Output Factory configurable	: 3V3 to 72V DC for main outputs (single to multiple outputs)
Max output power	: 750W
Temperature operating	: -40°C / $+70^{\circ}\text{C}$
Temperature storage	: -55°C / 125°C
EMC	: DEF-STAN 59-41/MIL-STD-461E by design
Shock	: 20 G (peak)
Vibration	: 9 G
Altitude	: 40,000 Ft
MTBF	: 400,000 Hours