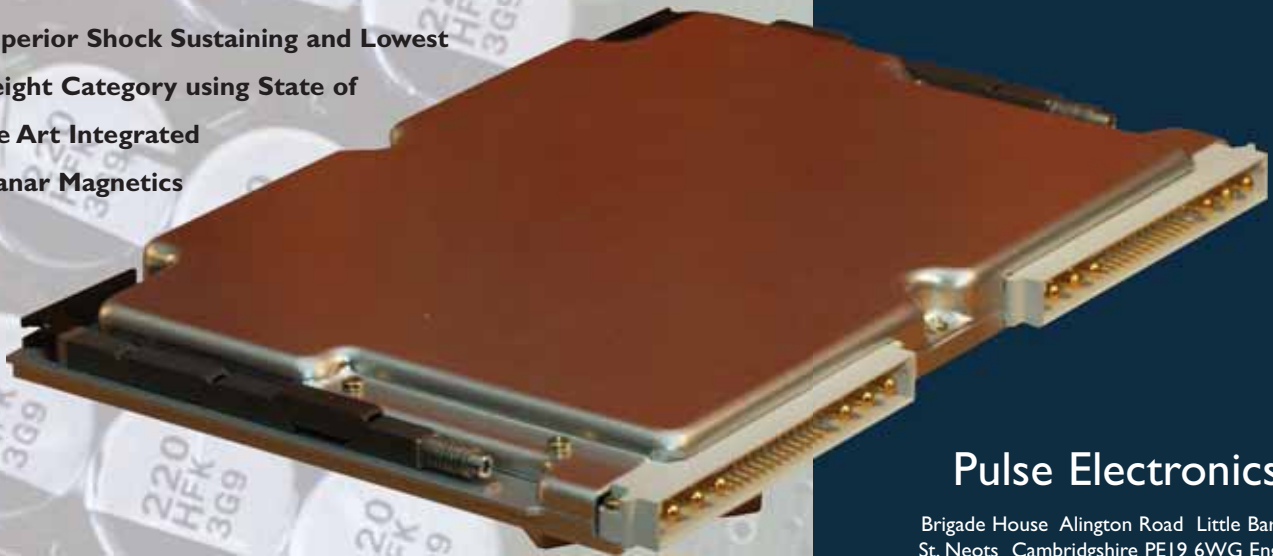


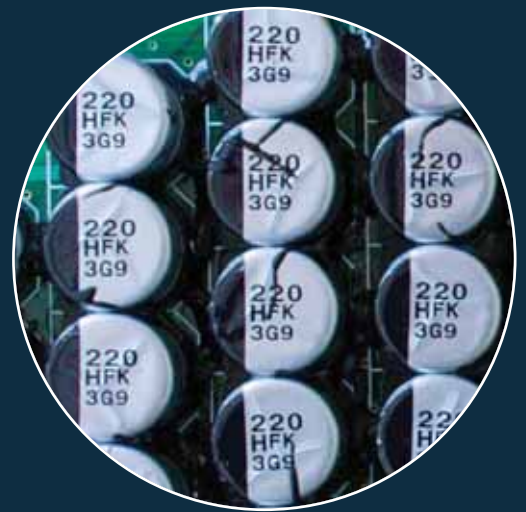
Leopard Power System

- **Complete Power System up to 1KW Output Power**
- **Up to four Power Converter Channels, each with system characteristics to Resolve Dormancy issues:**
 - Active Transient Ride-through
 - Input current limit
 - Automatic Power sharing with defined voltage output characteristics without Internal Single point of Failure system share line
 - Dual Input Capability
- **EMC MIL-STD-461E or DEF-STAN 59-41 Pt.6**
- **TRUE N + 1 System Redundancy and Protection on Both Input and Output Terminals suitable for Battery Charging for Land Vehicles**
- **Multi Channel Alarm Bite Monitors:**
 - Power Good on Output
 - Over Voltage Protection
 - Re-entrant Multi Alarm Thermal spreading Over Temperature protection at 105°C, i.e System reduces power when one channel stops but recommences power provision as soon as it cools down
- **Ultimate System Mechanical Integrity using custom 40A Power Pin configuration**
- **Superior Shock Sustaining and Lowest weight Category using State of the Art Integrated Planar Magnetics**



PulseTM
ELECTRONICS

An Ipeco Company



Pulse Electronics

Brigade House Alington Road Little Barford
St. Neots Cambridgeshire PE19 6WG England
Tel: +44 (0)1480 216516
Fax: +44 (0)1480 472428
Website: www.ipeco.co.uk
email : sales@pulse-electronics.co.uk

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Leopard Series

Specifications



BS EN ISO 9001:2000

Input Characteristics

Module Input Options	115VAC 400Hz PFC*
	270VDC*
	28VDC (16V to 42V)
	*Dual I/P or 3PH I/P

Input Transient (270VDC)	MIL-STD-704E+
(115VAC 400Hz)	MIL-STD-704E+
(28VDC)	MIL-STD-704E+

Notes: *Holdup depends on output configuration please see output characteristics

*Except Fig. 6, 9, 11 & 12 for undervoltage

Output Characteristics - 1 KW peak

@ Peak Power up to 400W- Internally Air Cooled Rack
LE300W-DC028S-5/30-3V3/20-12/2A5-12N/2A5-5/A5
LE400W-DC028S-5/25-3V3/20-12/15-12N/2A5-5/A5

@ Up to 1KW Peak - Liquid Cooled or Connected to Substantial Heat-sink or Forced Cooled Air

LE001K-DC028S-30/11-30/11-30/11 – Battery Charging
LE650W-DC028S-24/8-24/8-24/8

LE500W-DC028S-5/50-3V3/50-12/2A5-12N/2A5-5/A5
LE500W-DC048S-5/50-3V3/50-12/2A5-12N/2A5-5/A5

LE001K-DC270S-30/16A6-30/16A6 – Battery Charging
LE001K-DC270D-30/16A6-30/16A6 – Battery Charging

LE001K-DC270S-48/10A4-48/10A4

LE001K-DC270D-48/10A4-48/10A4

LE001K-DC270S-24/20A8-24/20A8

LE001K-DC270D-24/20A8-24/20A8

LE500W-3PH115-28/10-28/10- Digital Controls for Various Loads suitable for driving a Cooling System

Load Regulation < 1% typical

Line Regulation < 0.3% typical

Ripple and Noise (20MHz BW) < 1% typical

General Input Options 28VDC 270VDC/115VAC

Efficiency	85%	90%
Isolation		
Input to Case	500V	1.4KV
Input to Output	500V	1.4KV
Output to Case	500V	500V

Protection Characteristics

Output Over-voltage	115% of nominal
Output Over-current	115~140% of maximum
Over-temperature	105°C baseplate (retries at 95°C)
Reverse Input	28VDC Input Only
Zero Load Operation	Yes
Short Circuit	Latch or retry option
Input Over-current	150% of maximum

Alarms

Output Voltage Good, Input Voltage Good and Over-temperature
VME Bite and Start up signals ACFAIL, SYSRESET and SYSFAIL
Compatible

Environmental Characteristics

Temperature -40°C to +70°C*

Notes: *Dependent on cooling method

Shock	MIL-STD-810E Method 516.4
Vibration	MIL-STD-810E Method 514.4
Acceleration	MIL-STD-810E Method 513.4
Gunfire Vibration	MIL-STD-810E method 519.4
Form Factor	6U to IEEE1101.1
Mass	<1Kg

EMC Characteristics

270VDC & 115VAC	MIL-STD-461E (Aircraft use)
400Hz Input	CE102
28VDC Input	DEF-STAN 59-41 Pt. 6 DCE01

Note: Integrated filtering already exists. Full compliance can be achieved via known filtering techniques, components and heatsinking enclosure fitted externally. Please ask factory for details.

Reliability

MTBF > 20,000hrs @ 50°C AUF as per MIL-HDBK-217[F2]

Optional

Intelligent power control digital interface available. Please ask factory for details.



Dimensions

Width: 233.35mm Thickness: 17.7mm Depth: 160mm