

# Cheetah Power Modules

## Possible Configuration Arrangements for Cheetah Modules

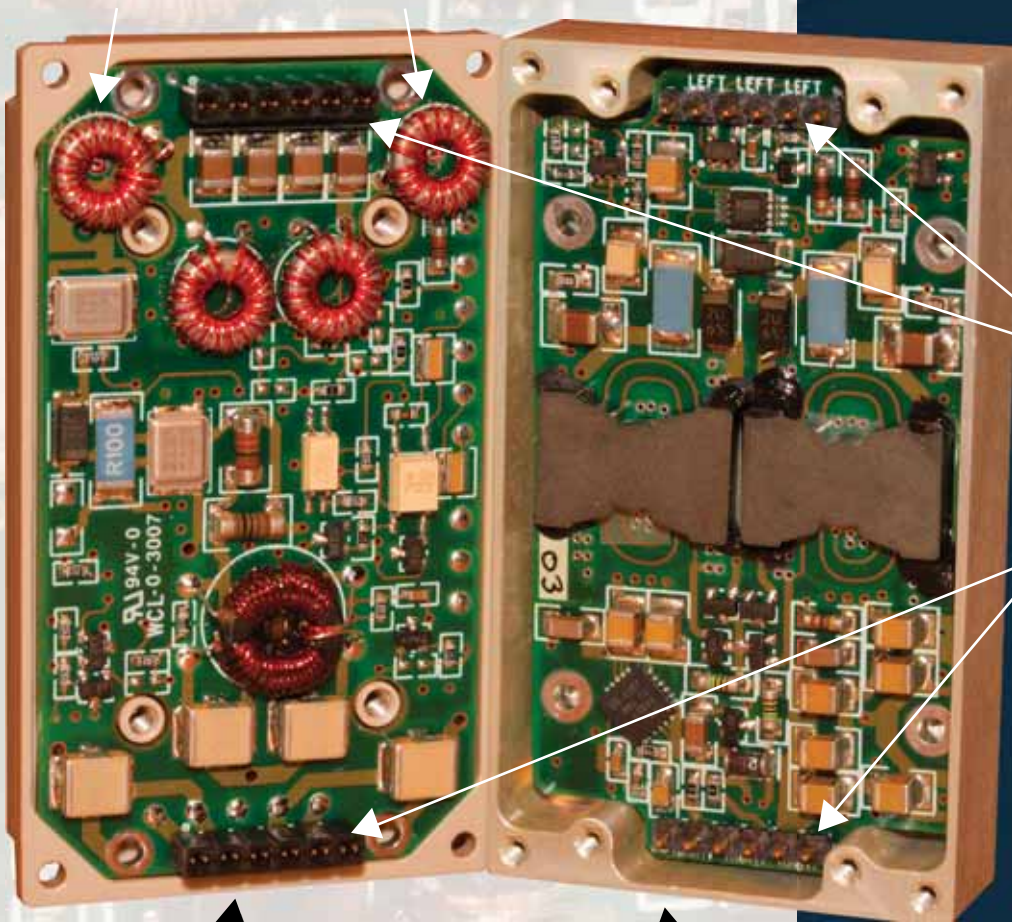
**Output Pins (visible on reverse) available to allow for External Hold up Capacitance to be provided if necessary for full EMC transient compliance or hold up and transient ride-through capability.**

**Note: The output pins are protected against Reverse Voltages, Transient Voltages Over 45Volts on the input and against current surges at switch on**

**Pulse**<sup>TM</sup>  
ELECTRONICS

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**Module Internal consisting of two main assemblies Input Filter shown on the left and main power converter shown on the right**



**Internal plug and socket connectors between Assemblies allowing either a vertical assembly or a horizontal low profile mechanical arrangement**

**Input and Output robust pin multi layer PCB inclusive of:**

- Double stage Differential and Common Mode filter configuration with associated I/P and O/P X and Y Capacitors
- Integrated reverse input Transient protected and input current limit circuits and
- Bite/enable and Alarm PCB Assembly

**Main Power Converter DC to DC Assembly Connected Directly to the Heat sink**

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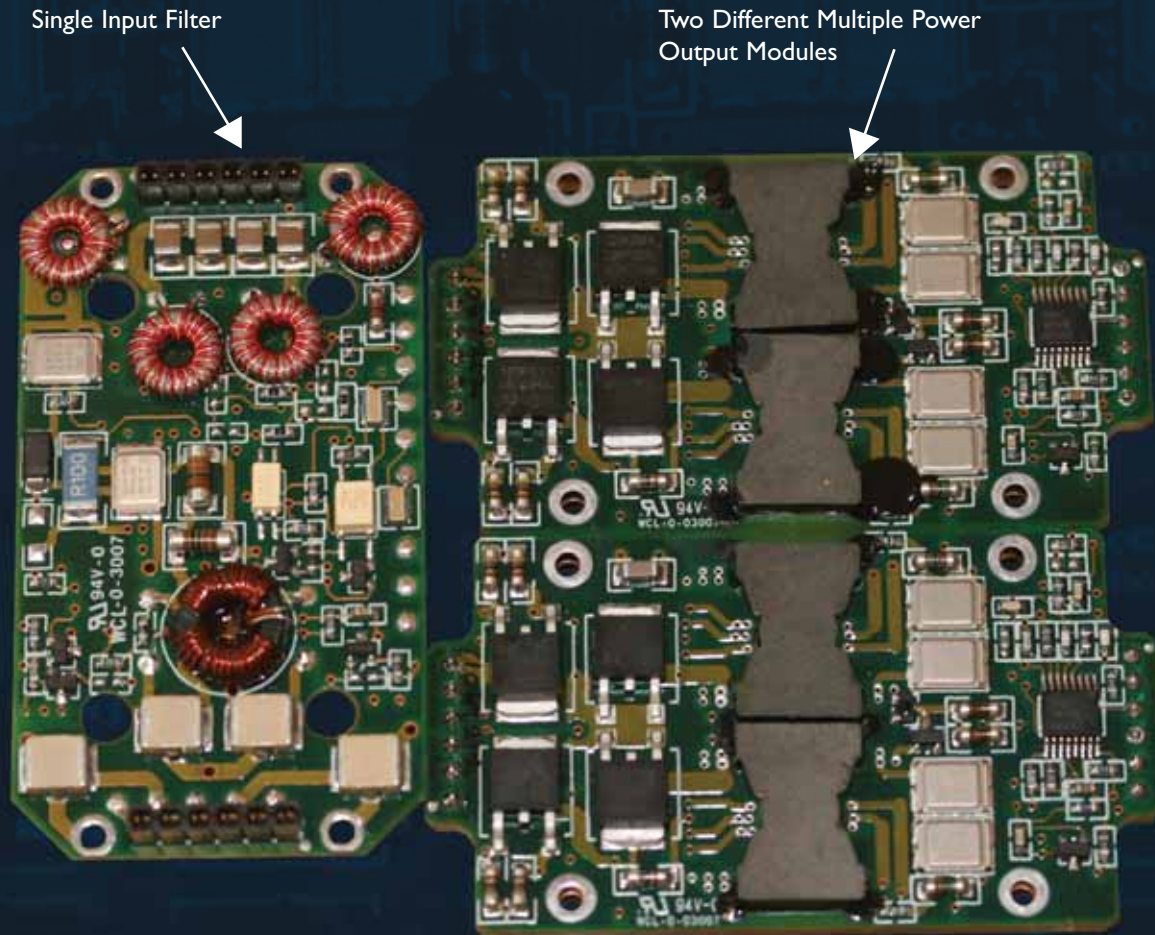
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# Cheetah Series

## Discussion Issues



BS EN ISO 9001:2000



### Alternative Configuration

- Multiple Different Output Configurations, up to six outputs Could be configured with one input filter arrangement if the total Continuous output power was less than 100W
- A clear example of this will be for the 100W maximum output N +1 Dual redundant output Configurations where the above arrangement will not only be more cost effective but will be more efficient as there will only need to be one input power overhead associated the input filtering protection and Alarms etc.

Note: True N+1 Configuration on the Input and Output would of course require two separate input filter circuits

### Future Developments

- 1 Pre Boost Module to allow operation from lower input Voltages, eg 6V up to 28V, although generally extra hold up Capacitance fitted in a protected environment would be the normal preferred option.
- 2 48V Input configurations with similar outputs to those of the 28V inputs
- 3 270V DC Input Configurations
- 4 115V single Phase Configurations