



# DATASHEET DC-DC CONVERTERS

## High-Density DC-DC Converters

TT Electronics designs and manufactures custom high-density DC-DC converters with power levels up to 10kW.

We have more than 40 years of experience designing and manufacturing military and aerospace power supplies for high-reliability applications using industry best practices in workmanship, derating and testing.

For further information on our full product portfolio, please email us at:

[power.sales@ttelectronics.com](mailto:power.sales@ttelectronics.com)



Custom designed for extreme environments and unique form factors

### Key Features:

- Single or multiple outputs
- Load sharing between modules
- Remote Sensing and ON/OFF Capability
- Low Noise
- Frequency synchronization
- Protection Circuits-Current Limit, Short Circuit, OVP & Temperature
- Output set point adjustment
- Synchronous rectification
- Digital control & telemetry



### Electrical Performance:

- 28VDC to 600VDC inputs
- 0.6VDC to 300VDC outputs
- Up to 95% efficiency



### DC-DC Converters:

- 1/2 brick up to 300W
- Full brick up to 750W
- Other designs up to 10kW; operate in parallel for even greater levels
- Power density > 100W / in<sup>3</sup>
- 28VDC to 600VDC inputs
- 0.6VDC to 300VDC outputs
- Up to 95% efficiency
- Half bridge, Phase shifted ZVT Full Bridge, Resonant, Fly-back and other topologies



### Custom DC-DC Power Supplies:

- Can package or combine existing modules and circuits for custom designs
- High density packaging, multiple outputs
- High reliability
- Custom designed for extreme environments and unique form factors
- Capable of all industry standard cooling methods

## CONTACT US

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