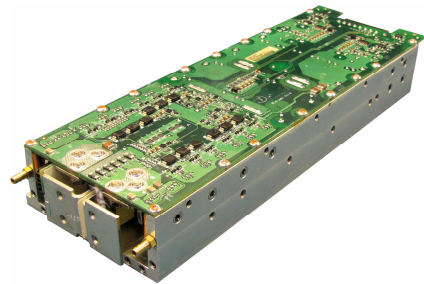




NEWS RELEASE

Subject: TDI Introduces A New 4.1kW, 28V Liquid Cooled DC-DC Converter
Hackettstown, NJ – October 20, 2010

TDI has developed LiquaCore™ (patent pending) power management technology which employs liquid cooling from a modular and scalable architecture. The technology uses a cold plate to wrap the electronics with cooling liquid in a sealed package that enables efficient management of waste heat at very high power densities. The cooling liquid employed is either water or a mixture of water and ethylene glycol (anti-freeze). By using standard converter modules powered from a typical 370VDC bus, we can quickly configure a high power solution for virtually any application.



**Standard Power Module
Building Block**

As part of our power management technology, TDI Power has developed a 4.1kW, 28V liquid cooled DC-DC converter that boasts 93% efficiency and has an MTBF of more than 100,000 hours. With a power density exceeding 35w/in³, we can easily create a modular solution for higher power needs – up to 50kW or more. The module is ideally suited for harsh environment vehicular applications and can be configured with a customized outer chassis to meet virtually any available space claim. By utilizing common mechanical extrusions and mainstream components, the product is well suited for high volume manufacturing.

Specifications:

INPUT

Voltage: 330–400VDC Operational, 370VDC Nominal,
Over-voltage tested to 440VDC

Peak Inrush Current: <45A

Efficiency: 93% with 370VDC source, 50 to 100% load

OUTPUT

Voltage: 28V

Power: 4,100W at Minimum specified coolant flow rate

MECHANICAL

Dimensions: H4.9 x W11.2 x D33.8 cm (H1.94 x W4.41 x D13.3")

Weight: 2.8kg (6.2 lb)

ENVIRONMENTAL SPECIFICATIONS

Coolant Medium/Mixture: 60/40 Propylene or Ethylene Glycol/ Water

Coolant Flow: 0.0208 to 0.0505 l/s (0.33 to 0.8 GPM)

COMMUNICATION

Communication Protocol: J1939 CAN BUS. (Optional)

TDI Power is a global manufacturer of Power Systems Solutions for the Industrial, Military/Aerospace, Medical, Computer/Networking and Telecommunications markets. We have a broad range of high technology power conversion products including DC and AC Power Systems, Power Supplies, Rectifiers, Converters and accessory equipment. Established in 1960, TDI is headquartered in New Jersey, USA, has over 700 employees and three facilities located throughout the world. For more information about TDI go to www.tdipower.com.

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