



## NEWS RELEASE

**Subject: TDI Introduces A New LiquaCore™ 7.8kW DC/AC Inverter**

**Hackettstown, NJ – February 2, 2011**

TDI has developed the LiquaCore™ (patent pending) power management technology, which employs liquid cooling in 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). As part of our power management technology, TDI Power has developed a DC/AC Inverter that boasts 95% efficiency and has an MTBF of more than 80,000 hours per MIL-HDBK 217. With a power density exceeding 33w/in<sup>3</sup>, we can easily create a modular solution for higher power needs. The inverter can also be used as a stand alone single-phase inverter or as a single phase in a multiphase system. It is ideal for harsh environment vehicular applications.

Specifications:

INPUT

Voltage: 350Vdc to 390 Vdc  
(370Vdc nominal)

Efficiency: 95%

**OUTPUT**

Voltage: 120 Vac/50 or 60Hz

Power: 7.8kW (with resistive load)  
6.25kW (with .8 power factor)

Current: 65 ARMS

Overload Current: 72 +/-5 ARMS

Harmonic Distortion: <1%

**DIMENSIONS:**

L 17.5" x W 6.7" x H 2.0"

L 44.5cm x W 17.0cm x H 5.1cm

Weight: 8.25 lbs. (3.7kg)

TDI Power is a global manufacturer of Power Systems Solutions for the Industrial, Military/Aerospace, Automotive and Medical 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](http://www.tdipower.com).

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