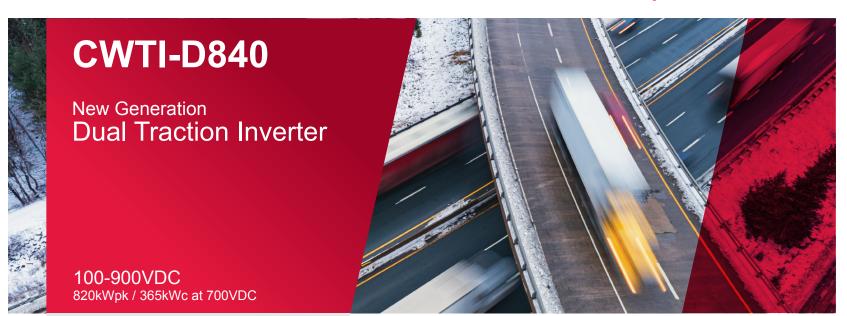


# Industrial Division Making the Difference



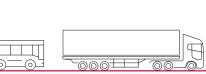
lacktriangle

Weight - 31Kg



## **Typical applications:**

Large Construction Vehicles
Class 8 Trucks
FEV Full Size Bus Diesel Electric Off-Highway
e-Axle















## Performance. Reliability. Flexibility.

The CWTI-D840 offers the best overall performance of any comparable IGBT inverter on the market.

- Real-time on-die sensing fastest short circuit, overcurrent and thermal protection in the commercial vehicle market.
- Robust design built using all vehicle grade components: AEC Q-100, 101 and 200.
- Fast customer specific integration choose off-the-shelf or customized User Interface Board.
- Designed for ISO 26262 includes safe torque-off methodologies.
- IGBT System integration technology that delivers performance comparable to SiC based inverters.
- Overall flexibility improves customer time-to-market and minimizes NRE costs.

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As a technological innovation that separates our offering from other inverters in the marketplace, our proprietary CW adaptive motor control software continuously monitors and adjusts to optimize motor performance by executing real-time "adaptive motor tuning" to compensate for changing system conditions.

Our software test results show power and torque increases up to 38% over conventional motor control methods. CW's motor control software provides our customers with maximum motor performance, thereby optimizing the size and cost of the electric motor and the overall system.

The motor efficiency gains through the software correlate directly to improved vehicle performance and a more efficient system.

This proven technology yields many system-level options and benefits when enabled:

- Automatically adjusts during changes in motor and system conditions.
- · Reduces the need for additional tuning and field support.
- Allows for smaller motor options, lighter weight, and lower cost.
- Minimizes battery consumption, that will increase miles per charge, longer battery life, lower operating cost.
- Extending the battery life also means less recycling and end-of-life costs.

## **Efficiency**

Up to 3% improvement to drive system (motor and inverter)

#### Range

Up to 14% of the increase in range from same charge<sup>2</sup>

#### **Power**

Up to 38% improvement on peak torque and power<sup>1</sup>

### Additional performance features of the CWTI-D840



FATURES



CONTROL













REAL-TIME DIAGNOSTIC &
DEBUGGING PROTECTION







BUILT-IN FMI FII TERS

- <sup>1</sup> Figures based on adaptive control on and adaptive control off.
- <sup>2</sup> Data against leading competitors in tests

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Making the Difference

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CWID-D840-20/05 v.1