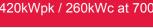


Industrial Division Making the Difference

CWTI-S420

New Generation Traction Inverter

100-800VDC 420kWpk / 260kWc at 700VDC



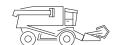




Mid / Full Size Hybrid Bus Coach **HD Truck** Speciality Off-Highway e-Axle



















Performance. Reliability. Flexibility.

The CWTI-S420 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.

cw-industrial.com

Adaptive Control and High Efficiency

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

improvement to drive system (motor and inverter)1

Range

increase in range from same charge²

Power

improvement on peak torque and power1

Additional performance features of the CWTI-S420



FATURES



CONTROL





AGNOSTIC



MOTOR TUNING

CALIBRATION













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

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CWID-S420-05/24 v.2