

**CURTISS -
WRIGHT**

Industrial Group



World Traction Inverter Family

WTI-S160, WTI-S260,
WTI-S530 & WTI-D260

www.cw-industrialgroup.com

Traction Inverter

State-of-the-art technology and innovative design from Curtiss-Wright for use in hybrid and pure-electric applications

Our experience in power electronics for commercial vehicles is unrivaled, having produced our first production unit in 2002.

Since that time our units have successfully logged nearly 1.8 billion on-road kilometers.

That experience, in-depth product knowledge, and past lessons learned, ensures our customers receive a robust, low risk, inverter solution with quick time to market.

This state-of-the-art WTI range is used in hybrid and pure-electric vehicles, and can operate with multiple motor technologies including AC induction, permanent-magnet synchronous (PMS) and interior permanent-magnet (IPM) types. This latest generation design combines the latest technology and lessons learned from over 15 years of field experience producing like products.



Curtiss-Wright brings over 15 years of experience in power electronics

Specifications

| Models | WTI-S160 | WTI-S260 | WTI-D260 | WTI-S530 |
|--------------------------|---|----------------------------------|------------------------------------|----------------------------------|
| Variant | 360VDC Single 160KVA / 80KVA | 600VDC Single 260KVA / 240KVA | 600VDC Dual 260KVA x 2 / 240KVA | 600VDC Single 530KVA / 400KVA |
| Electrical | | | | |
| Input Voltage | Up to 425 Vdc | Up to 800 Vdc | Up to 800 Vdc | Up to 800 Vdc |
| Continuous Phase Current | 375Arms | 375Arms | 375Arms | 600Arms |
| Peak Phase Current | 440Arms+ | 475Arms+ | 475Arms+ each | Up to 800Arms |
| Continuous Power | 80KVA | 240KVA | 240KVA total | 400KVA |
| Peak Power | 160KVA for 2 mins | 260KVA for 2 mins | 260KVA for 2 mins each | 530KVA for 2 mins |
| Mechanical | | | | |
| Dimensions (mm) | 360W x 325D x150H | 386W x 496D x 143H | 476W x 496D x 143H | 476W x 496D x 143H |
| Weight | 12 kg | 22 kg | 25 kg | 25 kg |
| Environmental | | | | |
| Environmental | ISO16750 | | | |
| Electrical Validation | ISO16750, ISO7637, ISO10650, ISO6469, ISO11452, CISPR25 | | | |
| Sealed | IP67, IP69K | | | |

Typical Applications

Ideally suited for shuttle buses, delivery trucks and other medium duty truck applications.

Ideally suited for full-size hybrid buses and heavy duty truck applications.

Dual inverter in one package to handle two motor applications on the same vehicle. Ideally suited for full-size FEV buses and articulated bus applications.

Ideally suited for articulated hybrid buses, full-size FEV buses and various off-highway equipment applications.

Serving the Power Electronic Industry

From electronic shift systems and vehicle electronics, to industry leading power electronics, Curtiss-Wright is trusted by today's leading heavy-duty vehicle original equipment manufacturers across the globe.

We are the leading supplier of heavy-duty traction inverters for the North American transit-bus market and a leading supplier of high voltage power distribution and charge switching units in Europe.

Our performance is unmatched. We achieved 100% OTD for our power electronics portfolio in 2016 and 2017 and zero factory PPM for our traction inverters for over 12 years running!



WTI S160



WTI S260



WTI D260



WTI S530

Why Choose Curtiss-Wright?

Our products combine the strength and stability of Curtiss-Wright with the cutting edge, innovative technology of our WTI family of mobile traction inverters.

- **Safety** – features that protect vehicle service and maintenance staff, while adhering to the processes of functional safety standard ISO 26262.
- **Modular design** – allows for customization that minimizes validation, resulting in short time-to-market and minimized risk while meeting product-specific requirements.
- **Unprecedented fault protection** – driven by unmatched direct “on-die” temperature monitoring and built-in current mirror.
- **Compact design** – at each power level the WTI offering is the smallest and most light weight inverter on the market.
- **Heavy Duty On Board Diagnostics (HD0BD)** – to successfully incorporate the latest requirements in on board diagnostics for various vehicle configurations.



Successfully logged nearly **1.8 billion on-road kilometers** since 2002

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Watch our traction inverter video at <https://bit.ly/2pQk76A>

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Partners Worldwide: For a listing of our global sales network, visit our website at www.cw-industrialgroup.com.

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