

**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.

The 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

Model	WTI-S160	WTI-S260	WTI-D260	WTI-S530
Variant	360VDC Single 160KVA / 80KVA	600VDC Single 260KVA / 240KVA	600VDC Single 260KVA x2 / 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 x 150H	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-sized 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 process 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 Diagnostic (HDOBD)** - 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

Contact Us

Asia

Shanghai, China

T: +86.21.3331.0670

E: cwig.cn@curtisswright.com

Taipei, Taiwan

T: +886.2.2778.1900

E: cwig.tw@curtisswright.com

Singapore

T: +65.6241.2508

E: cwig.sg@curtisswright.com

Pune, India

T: +91.20.67319100

E: cwig.in@curtisswright.com

Americas

Brea, California

T: +1.714.982.1862

E: cwig.us@curtisswright.com

Arlington Heights, Illinois

T: +1.847.844.4700

E: cwig.us@curtisswright.com

Portland, Oregon

T: +1.503.684.8600

E: cwig.us@curtisswright.com

São Carlos, Brazil

T: +55.16.2107.8745

E: cwig.br@curtisswright.com

Europe

Garching, Germany

T: +49.89.5404100.0

E: cwig.de@curtisswright.com

Christchurch, UK

T: +44.1202.034000

E: cwig.uk@curtisswright.com

Cwmfelinfach, UK

T: +44.1495.202000

E: cwig.uk@curtisswright.com

**CURTISS -
WRIGHT**



Headquarters: 15, Enterprise Way, Aviation Park West, Bournemouth Airport, Christchurch, BH23 6HH, UK • www.cw-industrialgroup.com

Facilities: Portland, Oregon, USA; Arlington Heights, Illinois, USA; Brea, California, USA; Christchurch, UK; Cwmfelinfach, UK; Garching, Germany; Pune, India; Suzhou, China; Shanghai, China; Taipei, Taiwan.

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

While this information is presented in good faith and believed to be accurate, Curtiss-Wright does not guarantee satisfactory results from reliance on such information. Nothing contained herein is to be construed as a warranty or guarantee, expressed or implied, regarding the performance, merchantability, fitness or any other matter with respect to the products, nor as a recommendation to use any product or process in conflict with any patent. Curtiss-Wright reserves the right, without notice, to alter or improve the designs or specifications of the products described herein.