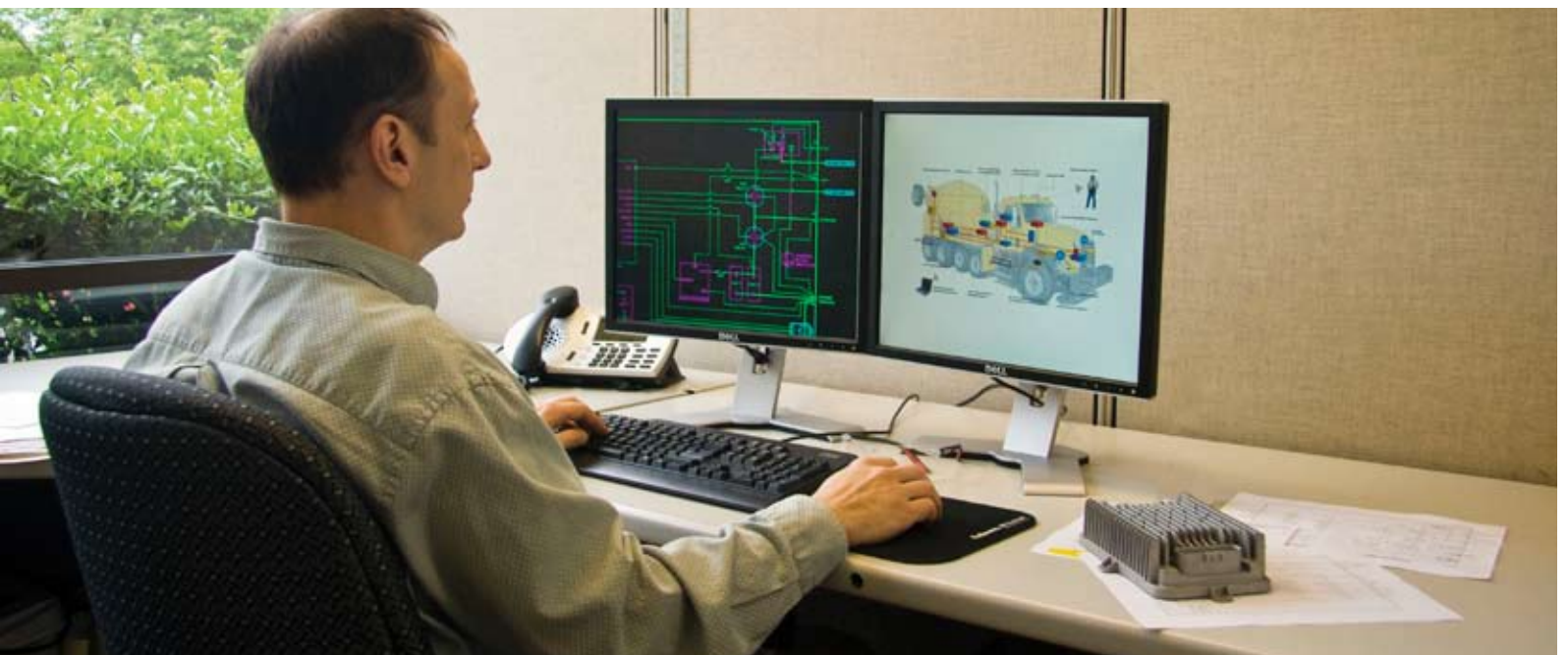


Transportation
Products



Accelerating Development... Driving Solutions

for Electrical Power Chain Safety, Efficiency, Reliability and Control


COOPER Bussmann

Cooper Bussmann Transportation



Your Trusted Partner For Electrical Power Chain Safety, Efficiency, Reliability and Control

In a worldwide transportation marketplace Cooper Bussmann is your leading source for safe and reliable electrical power and machine control solutions.

We're experts in the effects of cold and heat, vibration, high moisture, harsh chemicals and transient power fluctuations. We know vehicle power and control systems from the smallest to largest platforms, and will partner with you to develop reliable products and systems.

With combined industry history and experience reaching back more than 90 years, the engineering strength and proven track record of the Cooper Bussmann®, Sure Power and OMNEX Control Systems brands provide you the ability to accelerate product development in “smart” systems and create innovative, industry-leading solutions. These solutions range from straightforward products from our catalog all the way to next generation systems that will create efficiencies not yet realized.

The Cooper Bussmann mission is to respond completely and uniquely to OEM requirements for vehicle electronic products and control solutions that require cost reduction and customization.

We are committed to continuous new product development and offer you a competitive advantage through partnership R&D expertise and a technology portfolio that minimizes excessive tooling and time required to produce OEM-specific solutions.

Cooper Bussmann, a division of Cooper Industries, has a global manufacturing footprint. Our facilities are ISO 9000-2001 and TS1649 certified to meet the highest quality and environmental standards.



ONE Team

ONE Purpose

ONE Vision



Heavy-Duty Truck



Off-Highway



Military



Custom Controls



Transit/Coach



Marine



Electric Vehicle



Work Truck



Material Handling



Small Machine

You Benefit From:

Safe & rugged solutions

Trusted products & people

Extensive industry experience

Conversion, Conditioning, Management & Control



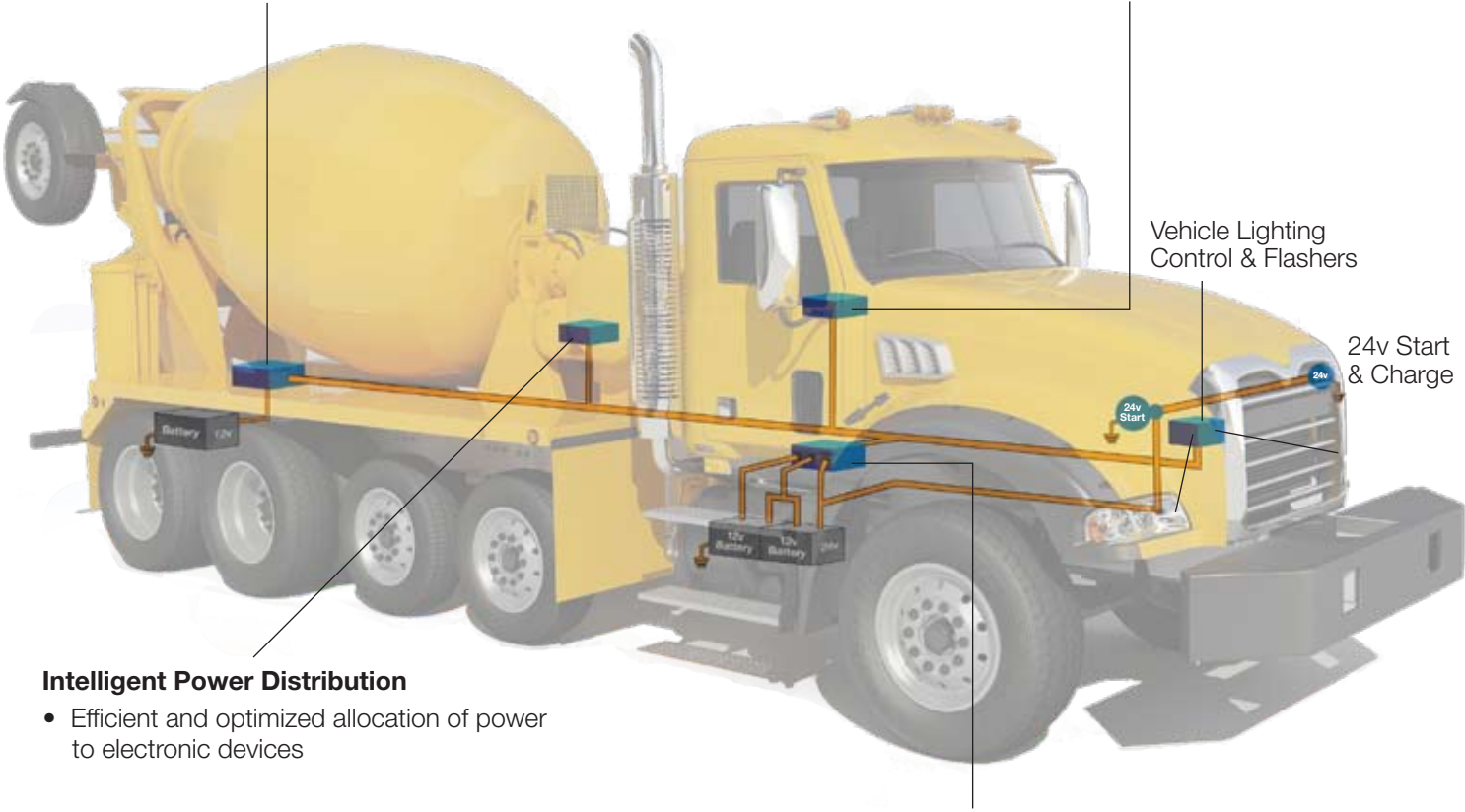
Off-the-shelf and custom-designed solid-state products for power conditioning, conversion and management, and control of on-vehicle electrical systems

Smart Remote Battery Charging/Isolation

- More efficient and reliable than mechanical or solenoid systems

Low Voltage Disconnection

- Intelligent power management and battery rundown protection



Intelligent Power Distribution

- Efficient and optimized allocation of power to electronic devices

Battery Equalization & DC-DC Voltage Conversion

- Maintain a balanced battery system by prioritizing multi-voltage charging

CAN (J1939) interfaces

Efficient Electrical Power Distribution

Maximize Battery Life and Performance

- Eliminate multi-battery drain
- Disconnect and reconnect non-critical loads
- Automatically manage battery charging
- Charge remotely mounted batteries at proper voltage

Stabilize Vehicle Power Supply

- Equalize batteries and maintain balance with solid state technology
- Prevent system overloads and protect against voltage spikes

Increase Component Voltage Flexibility

- Condition output voltages with reliable DC/DC power conversion and power conditioning
- Protect devices with clean power in multi-voltage applications
- Allows use of components or accessories with different voltage requirements to operate on the vehicle



Broad Range of Isolator Current Capacities

- 25A through 350A

Wide Converter Input Voltage Range

- 9Vdc to 96Vdc negative ground

Low Voltage Disconnection

- Ranging from 9Vdc to 25Vdc

Versatile Battery Separators

- Work with any type of 12Vdc or 24Vdc negative ground charging system, 300A or less

Other Accessories

- Solid state flashers (12Vdc and 24Vdc)
- Daytime running lights (CMVSS-108, CAN/CSA=D603-88, Type 2; FMVSS-108)

EMI/EMC Profiling

- SAE, ISO, E mark, CE and Military Standards

Solid State Power Switching

- Up to 300A

Specifications & Demand Drive Integrated Solutions

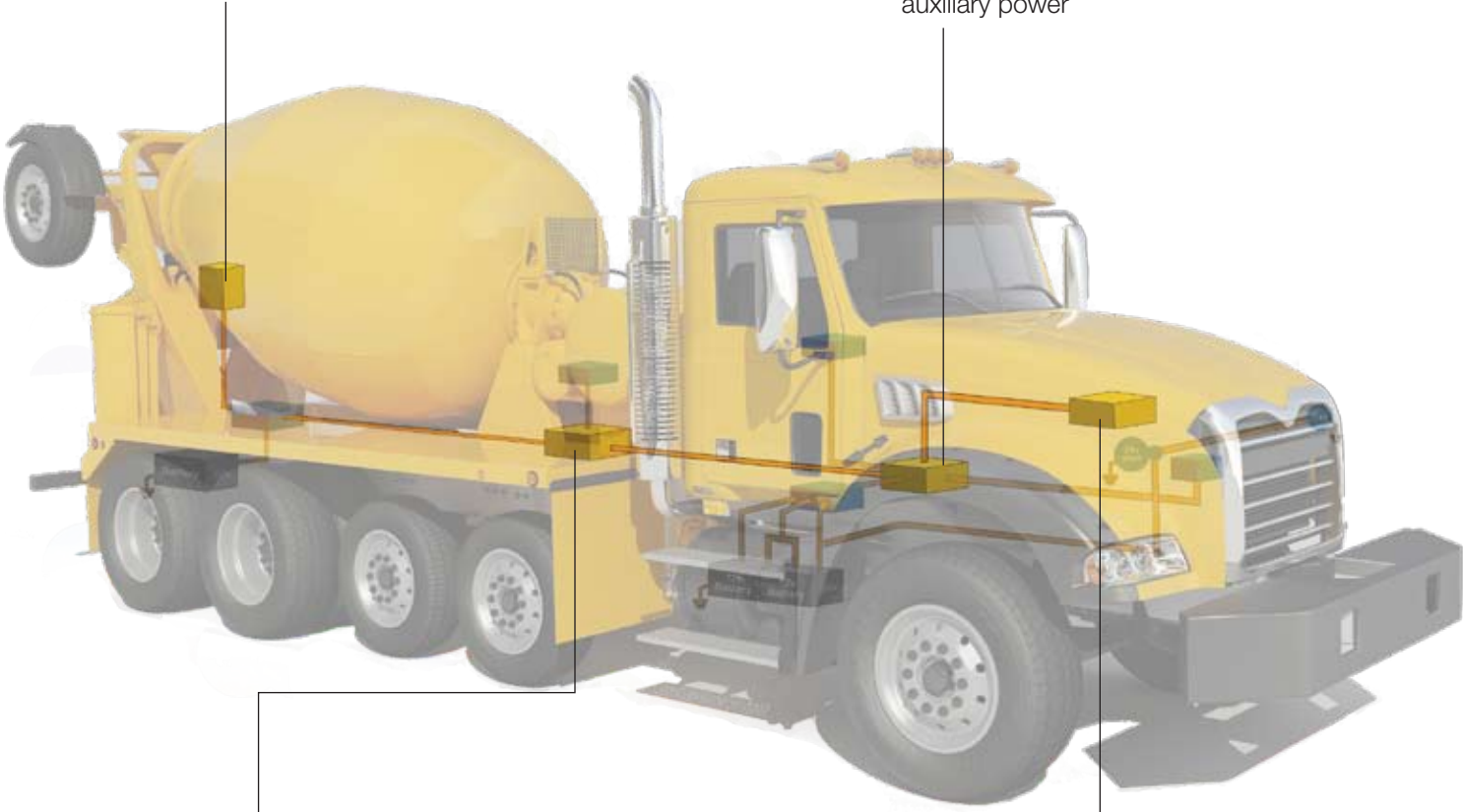
Off-the-shelf and custom-designed products that provide and protect vehicle power distribution

Electronic Device Protection

- Fuses, circuit breakers and junction blocks

Electrical Distribution Modules

- Customized distribution of main and auxiliary power



CAN (J1939) Bus Interface

- Integrate power management to control systems

Electrical Systems Protection

- Non-fused current disconnection between the battery and electrical system load

Customize Electrical Control

- Reduce wiring harness complexity and overall wiring space requirements
- Scale power distribution to meet power requirements of any application
- Rapid development of customized modules with advanced 3D matrix technology

Maximize Fault Protection In Minimum Space

- Compact packaging
- Take advantage of a suite of auto, manual and modified fuses, fuse holders, circuit breakers and junction blocks

Network CANbus Enabled Power Distribution Modules With Vehicle System

- Improve system control, performance and diagnostics



High Power Ratings

- Circuit Protection up to 500A
- Interrupt rating up to 10kA
- Power Distribution modules up to 400A
- Voltage ratings to 48Vdc and beyond

Multiplexing Capability

- J1939 Interface

Flexible Configurations

- Delphi™ / AMP™ terminal connections
- 1-32 position fuse blocks

Rugged Construction and Serviceable Design

- High ingress protection
- High temperature/humidity/vibration resistance

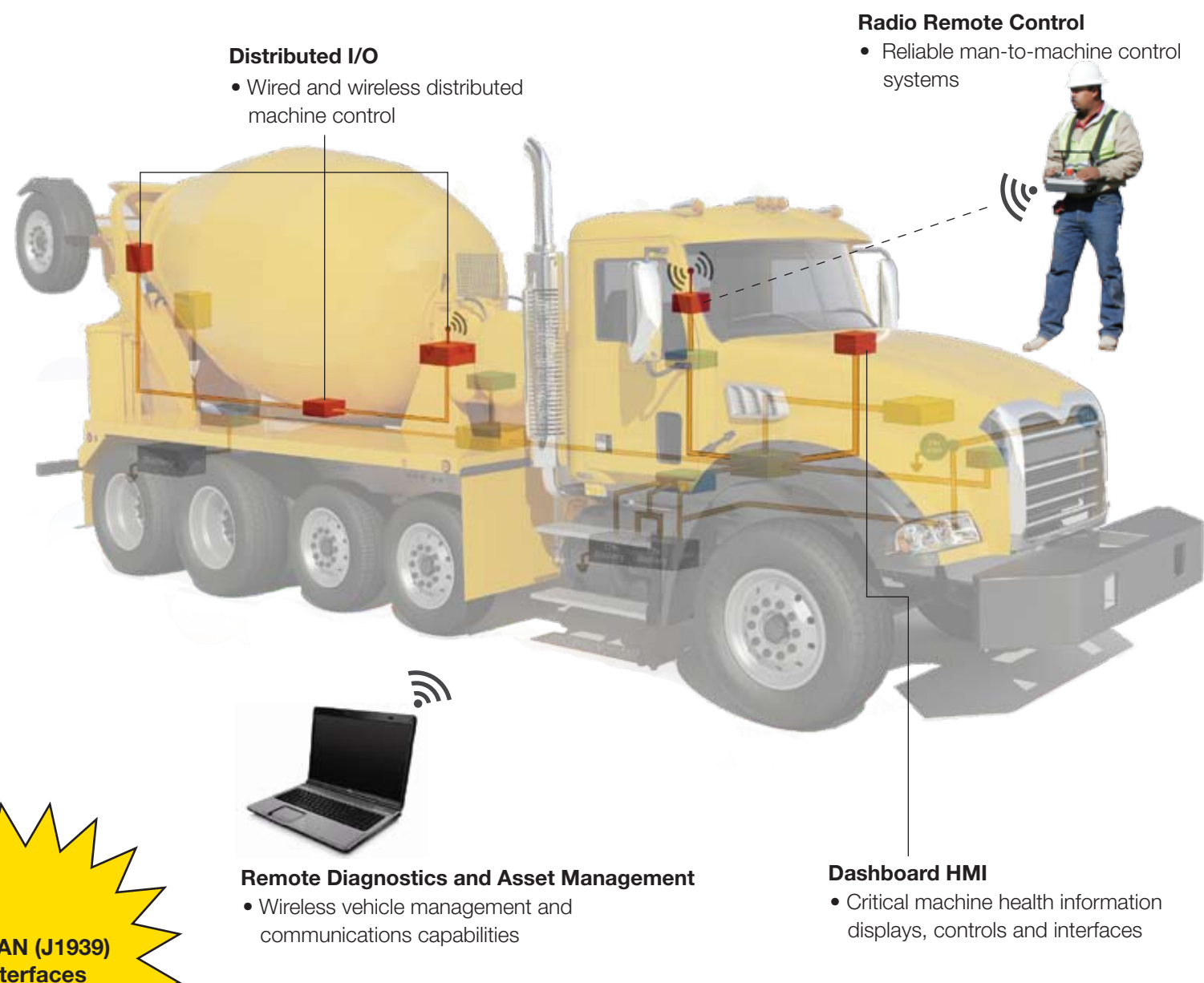
Ignition Protected Options

- Per SAE J1171

Agency Compliant

- SAE / ISO / ABYC / UL / CE / CSA

Off-the-shelf and custom-designed products for the distribution of I/O, on-chassis communication and remote vehicle control



Reliable Machine Control

Enhance Machine Safety and Productivity with Customized Radio Remote Control

- Operate reliably in the harshest industrial environments with OMNEX TRUSTED WIRELESS™

Integrate Discrete and Proportional Distributed I/O

- Deploy modular CAN (J1939) enabled I/O
- Reduce wiring, space requirements, installation labor and maintenance with distributed wireless I/O

Increase Machine Efficiency and Revenue Generation

- Eliminate cumbersome and costly control pendants, gauges and wiring
- Monitor and control machine functions with two-way wireless communication
- Improve vehicle asset management with useful human-machine interfaces (wired and wireless HMI)



Proprietary and Standards-based Radio Technologies

- TRUSTED WIRELESS™ FHSS, 802.11a/b/g

Global Radio Certifications

- 900 MHz , 2.4 GHz, 5 GHz

Wide Operating Temperature Range

- -40 °C to +70 °C (-40 °F to +158 °F)

Exceptional Battery Performance

- 160 to 600 hours continuous transmitter use depending on application with recharge capability

High Impact Product Construction

- Low temperature plastic, weatherproof, UL-94, 746A,C,D,ASTM D 469

Modular HW Designs and Customized SW Control Algorithms

- In-house applications engineering dedicated to new OEM product development

EMC/EMI Full Compliance Testing

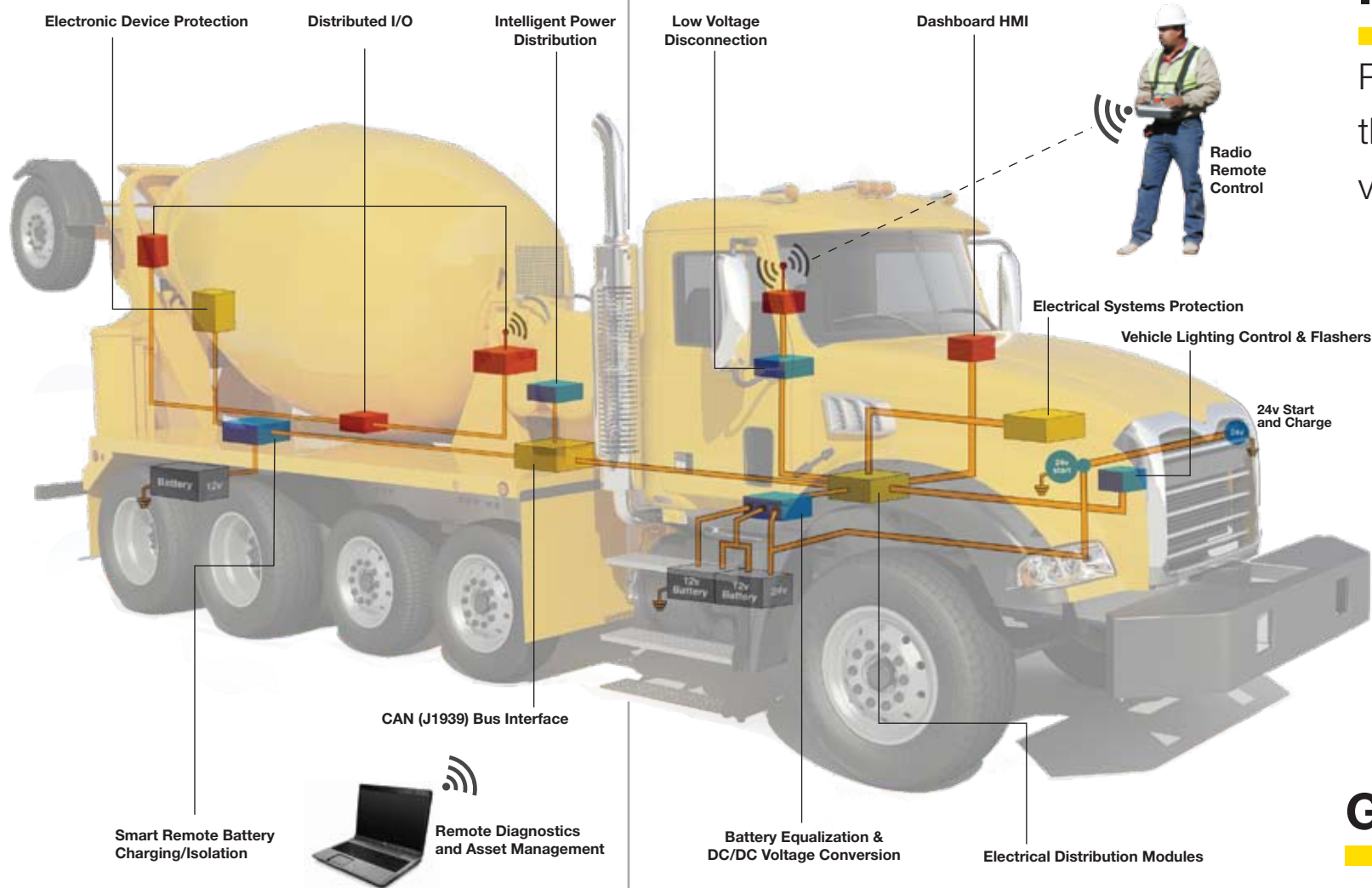
- FCC / ISC / CE / G-Tick / EN300 440

Supporting Your Service & Market Requirements for Product Platforms, Infrastructure & Flexibility

Leading Products & Sales Support

Large, global, healthy and diverse end markets; we're focused on your success.

Globally Trusted Brands



Innovation & Technology

Product and technology platforms that create end user demand and value for your products.

Global Infrastructure

Our world-wide R&D, manufacturing and customer support is available anywhere you do business.



Power Management

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Sure Power**
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Power Distribution

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Fax: 800-832-9873

Radio Remote Control

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Cooper Bussmann Transportation
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