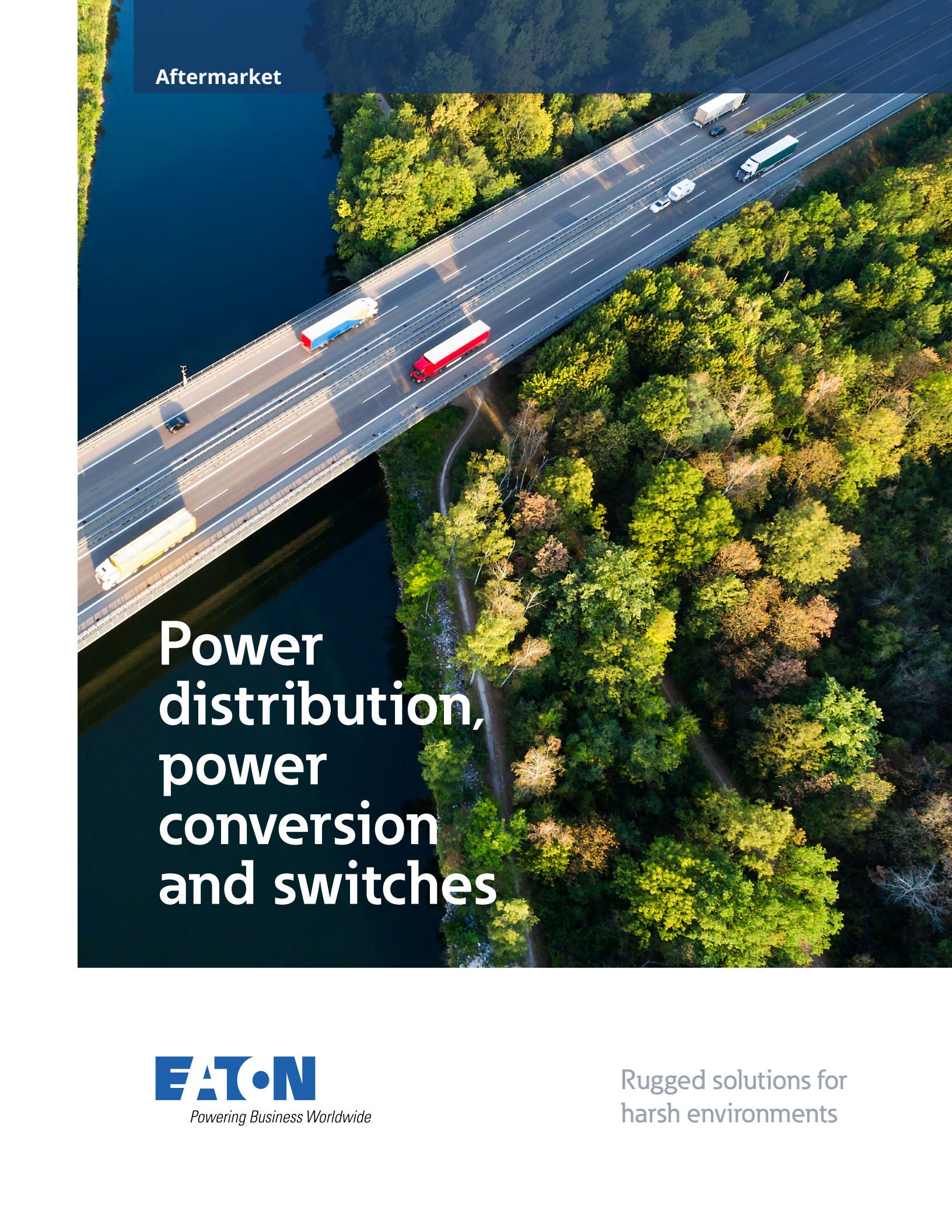




Aftermarket

Power distribution, power conversion and switches



Powering Business Worldwide

Rugged solutions for
harsh environments



Circuit protection
Power Conversion Power Distribution
Vehicle controls



Rugged solutions for harsh environments

Our team at Eaton brings together vast electrical and industrial experience to give you a robust portfolio of flexible and rugged low voltage products for power distribution, conversion and switching.

Eaton's products are built with reliability and serviceability in mind, featuring high power ratings, ignition protection, sealing options up to IP68 and compliance with SAE, ISO, and military standards.

We are experts on the effects of harsh environments relating to temperature extremes, vibration, high moisture, chemicals and transient power fluctuations. We know vehicle power and control systems from the smallest to largest platforms and are able to develop reliable products and system solutions that:

- Meet low and high-volume requirements, simple to complex
- Exceed OEM requirements for ruggedness, configurability and performance

Vehicle controls

Flexible solutions for all your commercial vehicle switching needs

The vehicle controls portfolio at Eaton offers a broad range of solutions not only for on- and off-road vehicles, but also for commercial machine applications that require rugged, dependable switches. These products are at the heart of many systems, including heavy-duty trucks, construction and agriculture.



Toggle switches

XT Series:

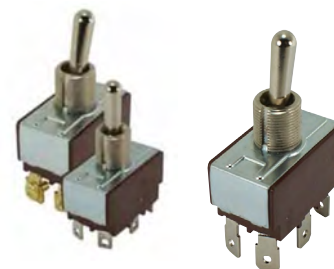
XT toggles are Eaton's standard offering, suitable for a wide range of applications including commercial, industrial and household equipment. Single and double pole configurations with a variety of circuits up to 20A and 1 1/2 HP are available.

7500 Series:

7500 series are Eaton's premium line of toggle switches. One to four pole configurations, a wide variety of circuit choices and ratings up to 30A 1 1/2 HP. Military, sealed, hesitation and locking versions are also available.

Key features

- UL recognized, rated 6A-30A, up to 28V DC or 240V AC
- 2 and 3 position, maintained and momentary circuits
- Military, locking and illuminated versions
- High quality, long life
- Ruggedly designed for harsh applications



Vehicle rockers

NGR (New Generation Rockers):

NGR series offers flexibility and modularity with removable lenses & rocker buttons, a wide variety of circuit, icon and LED choices, along with optional IP67 sealing. NGR carries ratings from 500mA to 20A to cover a variety of applications.

SVR (Sealed Vehicle Rockers):

The SVR series is designed to meet the rugged demands of construction and agriculture environments. They are rated from 500mA to 15A and IP68 sealed front and rear, with a variety of circuit, icon and LED choices.

8004/8005, 8006/8007 Series:

Known as the Euro rocker family, 8004-8007 series are a standard offering which performs well in rugged environments. Rated up to 15A with UL approval and options for IP67 sealing and icon customization, the Euro rocker is an excellent choice for many vehicle and industrial applications.

Key features

- Rated 500mA-20A, 12V or 24V DC, sealed up to IP68
- Removable rocker buttons for flexibility and "late point definition"
- Connectorized for quick disconnect
- Sealed for harsh environments
- Customizable LED and icon choices



Appliance rockers

1500/2500 Series:

Mid-sized rockers are most often found in appliance or industrial applications, but can also be used on vehicles. A value alternative that provides ratings up to 22A in both AC and DC applications with UL approval, the mid-size rocker is an affordable and reliable choice.

Key features

- UL/CSA recognized, rated 10A-22A up to 28V DC or 240V AC
- Single or double pole
- Standard icons available



Pushbuttons

8411 Series

The 8411 series pushbuttons are light-duty, non-illuminated switches with single-pole single-throw (SPST) configurations. They are designed for general-purpose applications, offering reliable performance with a current rating of 0.75A at 125V AC/DC.

Key features

- UL recognized, rated 1/4A-15A up to 28V DC or 240V AC
- Spade, screw, solder terminals or wire leads
- Can be used as a door, foot pedal or limit switch
- Fits within tight spaces



Circuit protection

Protection against overcurrent and short circuit in commercial vehicle electrical systems

Eaton's leadership in circuit protection extends into commercial vehicles with blade and bolt-on circuit protection devices, including a variety of thermal circuit breaker and fuse solutions. Eaton solutions range from low current branch circuit fuses and circuit breakers up through 200 Amp switchable circuit breakers that protect and control heavy vehicle electrical systems. Eaton also offers a range of manual and automatic battery disconnects in our line of commercial vehicle power management products.



Automotive style fuses

Eaton's automotive style fuses are designed to protect electrical circuits in vehicles. They are available in various types and sizes and are suitable for use in trucks, RVs, construction, agriculture, ATVs, and material handling equipment.

Key features

- ATC: Fast acting, rated 1-40A, ignition protected
- Low Profile ATC: manual reset, rated 5-30A, 28V DC, ignition protected
- Maxi: Fast acting, rated 20-80A, 32V DC, ignition protected
- Brand trusted, precise and robust circuit protection for all mobile applications



Bolt in fuses

The AMI and AMG series bolt-in fuses are designed for high current power distribution applications. Both series feature UL-rated 94V0 thermoplastic housings and tin-plated brass terminals, ensuring reliable performance in demanding environments.

Key features

- AMI: 30-200A, 70V DC, ignition protected
- AMG: 100-500A, 70V DC, ignition protected.
- Brand trusted, precise and robust circuit protection for all mobile applications. Plated for added corrosion protection.



Automotive style circuit breakers

Eaton's automotive style circuit breakers, including the CB185 series, are designed for use in trucks, RVs, construction, agriculture, ATVs, and material handling equipment. They match the ATM and ATC fuse footprints and provide voltage and current limiting functionality.

Key features

- Single pole, thermal type
- Rated 5-30A, up to 28V DC
- Type 1: auto reset, Type 2: modified reset, Type 3: manual reset Compliant to SAE J553
- Proven circuit protection for all mobile applications in variable temperature and vibration applications.
- Perfectly designed for Eaton power distribution modules.

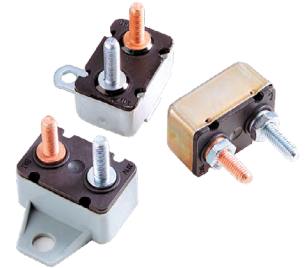


Short Stop circuit breakers

Eaton's Series 12X short stop circuit breakers feature auto, manual, and modified reset options. These single-pole thermal type breakers are used in battery chargers, trucks, buses, RVs, trolling motors, and more. They offer ratings from 5 to 50A at 14V DC and 28V DC.

Key features

- Rated 5-50A, up to 28V DC
- Option to seal to IP66 Type 1,2 and 3 resets
- Compliant to SAE J553
- Compact and low-cost circuit protection with a multitude of mounting options to suit any mobile application



High Amp circuit breakers

Eaton's high amp circuit breakers are typically used in auxiliary and accessory circuits for trucks, buses, RVs, and marine applications. They are also used in battery charging systems to manage and protect batteries in multi-battery installations.

Key features

- Single pole, thermal type
- Auto, modified or manual reset available
- Rated 25-150A, 30V or 42V DC
- Sealed to IP67 and compliant to SAE J553
- Typically used in auxiliary and accessory circuits in trucks, buses, RV, etc. due to high reliability and quick reset ability
- Waterproof for bilge and engine compartments



Marine Rated circuit protection

Series 187 marine rated circuit breakers are designed for DC power systems in marine, truck, bus, and RV applications, as well as for accessory protection and features a manual reset with switchable function. These single-pole thermal type breakers are external ignition protected and weatherproof.

Key features

- MRBF: 30-300A, 58V DC, IP66 sealed cube style fuse
- MRCB: 25-200A, 48V DC, IP66 sealed manual reset breaker. Compliant to ABYC E11 and SAE J553
- Designed for most demanding environments - truck, RV, bus, marine
- Main and auxiliary circuit protection



Power Distribution

Flexible, custom, rugged solutions

Eaton's off-the-shelf and custom-designed vehicle power distribution and circuit protection products include vehicle electric centers, power distribution modules, fuse panels, fuse holders and junction blocks. Our product range offers multiplexing capabilities, high power ratings, ignition protection options and flexible configurations with rugged and serviceable, agency-compliant designs that include a range of sealing options up to IP69K.



Terminalized fuse holders

RTMR (Rear Terminal Mini fuse & Relay):

The RTMR series provides efficient power distribution in a rugged, compact form with 60 open cavity positions. It allows insertion of components, cable seals, and plugs, providing a weather-tight enclosure (IP66) suitable for marine, construction, agriculture, heavy trucking, and specialty vehicle applications.



RFRM (Rear-fed Fuse & Relay Module):

The RFRM series accepts plug-in fuses, relays, circuit breakers, resistors, and diodes to meet various power management requirements. It offers multiple internal bussing options, accommodating various OEM requirements.

RTA (Rear Terminal Assembly):

The RTA series is designed for high-density power distribution, providing a compact and efficient solution for managing multiple circuits in a single unit. It is suitable for applications requiring robust and reliable power management.



Key features

- Accepts automotive style fuses, relays & circuit breakers
- Studded or terminal connections
- Gasket sealed enclosure up to IP66
- Rated up to 80A
- Reduces wiring, labor and connection failure points
- Suited for harsh environments

Simple fuse holders

PDM-AMI Series:

The PDM-AMI series allows up to four bolt-in style AMI (midi) fuses to be connected while providing protection from harsh environmental conditions. It is a sealed solution for higher current requirements (30A-200A), housing multiple fuses with spares in the same sealed location.



LMG Series:

The LMG series is available in “Big Block” format and in interlocking modules designed to create bussed assemblies using up to six AMG fuses for branch circuits up to 600A.

LMI Series:

The LMI series, also known as the “Little Block,” accepts up to six AMI fuses and is used for main branch primary fusing. It offers a heavy-duty fuse panel with a common input bus bar.

PRM Series:

The PRM series fuse holders are designed for use in various applications, providing a compact and efficient solution for protecting electrical circuits. They are suitable for use in automotive, marine, and industrial applications.

FMG Series:

The FMG series fuse holders offer a reliable solution for protecting electrical circuits in harsh environments. They are designed to accommodate multiple fuse types and provide a secure and durable connection.

Key features

- Bolt-on fuse holder style, uses common bus bar
- Studded connection points
- 2-6 position versions available
- Ratings up to 500A
- Grouping functions, reducing harness costs
- Modularity and flexibility across fuse values

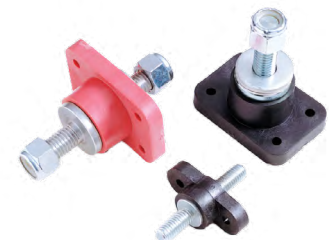


Junction blocks

Eaton's junction blocks are designed for heavy-duty ground or power connection points in AC or DC circuits. They feature modular construction, offering design and manufacturing flexibility for mounting within various vehicle electrical systems.

Key features

- Single or multiple stud types available
- Rated up to 30A
- Ideal for heavy duty ground or power connections





Power Conversion

Conversion, conditioning, balancing and battery charging

Eaton's power conversion solutions provide standard products for a wide range of DC-to-DC conversion, battery equalizer and DC-to-AC inverter requirements. Exceeding the most stringent performance requirements of military, commercial vehicle, agriculture and construction applications, we provide rugged products that maximize vehicle productivity and useful life.

DC/AC Inverter

The true sine wave inverter provides clean, reliable AC power. With a true sine wave output, the inverter can power electrical loads up to 1,800W, including sleep apnea machines, tools, motors and other demanding electrical devices. When shore power is available, a built-in 20A relay automatically transfers to incoming AC utility power, minimizing battery discharge and eliminating the need for an external transfer switch.

Key features

- True sine wave output
- Remote mounted user interface control panel
- Integrated AC transfer switch
- Optional battery charger
- Surge current of twice the rated output
- UL Listed / CSA Approved
- Battery over-voltage and under-voltage protection
- Over temperature shutdown
- Automatic overload protection
- Short circuit and ground fault protection



DC/DC Voltage Converter

Eaton DC-DC voltage converters provide regulated power directly to accessory or main loads. They can produce 24V power from a 12V source and 12V power from a 24V, 48V and 72V sources. Operating with a typical efficiency of 94%, Eaton DC-DC voltage converters are optimally ruggedized for transportation applications including state of the art vibration, emissions and abnormal use features, such as reverse polarity protection.

Key features

- Input voltage range 28V to 72V
- 12V to 28V available with CAN control
- 500W to 3kW versions available
- IP67 sealed enclosure
- CAN diagnostics
- Bi-directional capable
- RoHS, EMI/EMC compliance
- Air cooled, reducing integration costs



For more information, visit
www.eaton.com/low-voltageCVsolutions

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