

POWER AND MODULAR Solutions

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UTMOST VERSATILITY AND RELIABILITY

Designated for heavy duty power distribution and main electric services protection, these Power Distribution Units, Modular Electrical Centers and Frames with modules, developed based on a modular design concept for the utmost versatility.

They have been updated to deliver higher performance and respond to the new demands of these applications. They permit a simplified wiring harness layout in the engine bay to keep harnesses safe from water and dirt.

Some PDUs have been developed and produced to be suitable for 48 V electrical architectures to support the most energy-demanding systems.





CARS

TRACTORS

OFF-HIGHWAY VEHICLES



Read more about MTA power and modular solutions on www.mta.it/en/electrical-products



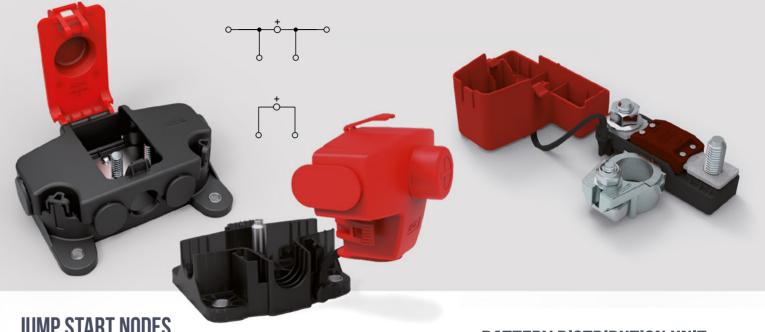


MOTORCYCLES



TRUCKS





JUMP START NODES

These products provide a solution for rational safe multi-way electric power distribution. They are used to disconnect the electric system downstream of the battery. They have a special design that allows them to be adapted to each application. Optional: a threaded middle pin which serves as a safe power connection to start up and/or charge external electric devices such as batteries or other equipments.

POWER DISTRIBUTION UNITS

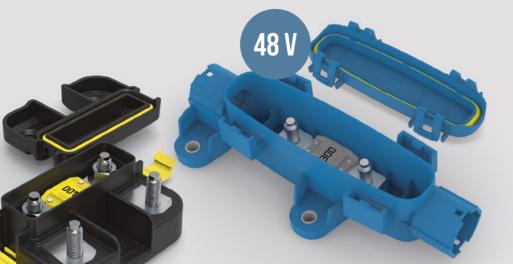
BATTERY DISTRIBUTION UNIT

This BDU features a casted battery terminal in Z Axis in 2 verions: left or right side. It has compact dimensions which make it versatile and easy to be placed. Accomodates 1 MegaVal fuse.

POWER DISTRIBUTION UNITS

MEGAVAL HOLDERS & WATERPROOF

These fuseholders provide great resistance against bumping and tampering. A sealed separated compartment protects the fuse and terminations from harsh environments. The cover has a fixing system with positive touch and it is linked to the body by a tether to avoid possible loosing. One fixing point is located at the center while a second one is satisfied by anti-rotation device on the main body, thus the possibility to fix the fuseholders in different positions. Two versions available: one with cover and gasket to seal the fuse compartment, the other with "extended" cover to protect the 2 stainless screws too. They can accomodate MegaVal fuses up to 500 A.

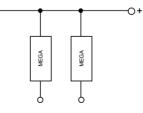


48 V MEGAVAL HOLDER

WATERPROOF

This 48 V MegaVal fuse holder has been developed with very high-performing characteristics. It has been put through a series of tests with the result to be qualified for applications under the wading depth of cars.

PDU 2M

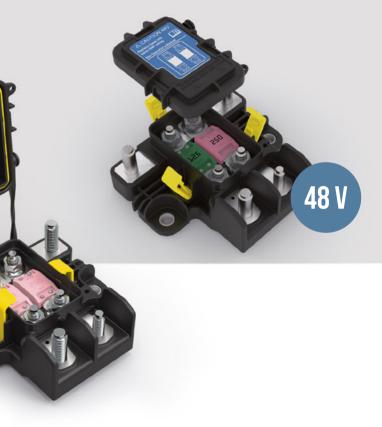


WATERPROOF

The PDU 2M is particularly indicated for harsh environments and in the presence of possible corrosion-related problems. Hence the choice of V2 grade materials in the body of the unity and the cover, external screws in stainless steel, increased degrees of protection and sealed separated fuse compartment. The PDU is distinguished by the presence of a high-thickness copper busbar and breathable valve pressure relief mechanism. The cover has a fixing system with positive touch and it is linked to the body by a tether to avoid possible loosing. The PDU has 2 fixing points allowing to fix the device in different positions.



POWER DISTRIBUTION UNITS



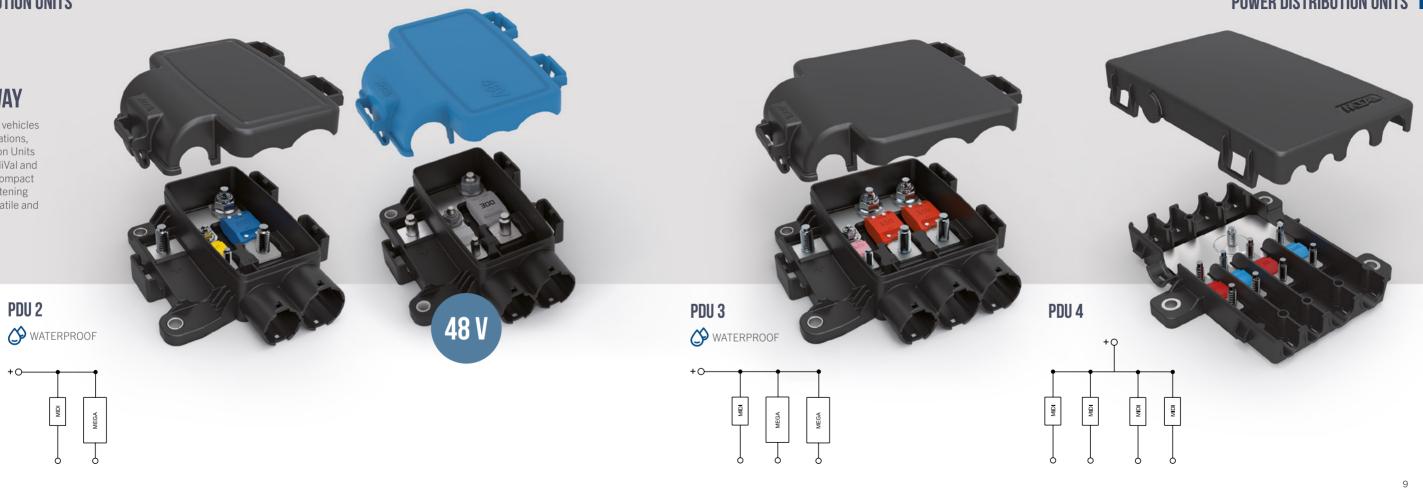
POWER DISTRIBUTION UNITS

PDU 2, 3, 4-WAY

Designed for both light vehicles and heavy-duty applications, these Power Distribution Units can accommodate MidiVal and MegaVal fuses. Their compact shape and multiple fastening points make them versatile and easy to use.

PDU 2

+0----



POWER DISTRIBUTION UNITS

POWER DISTRIBUTION UNITS

CONFIGURABLE PDUs

These PDUs offer a high level of flexibility. They can house electronic BDS and different combinations of bussed MidiVal and MegaVal fuses (up to 4 MidiVal and 2 MegaVal). They can also accommodate 5 MiniVal fuses and any fuse and relay holder module in the MTA range. A seal mounted in the cover assures protection from dust and water.

SPLASH PROOF

PDU 6 BDS



C-MEC 138

The Modular Electrical Centers are plug & play products with PCB. They allow to integrate all the functions in one piece, thus eliminating the need of different modules and associated wirings. This configurable Cabin-Modular Electrical Center has been developed mainly for agriculture, construction, heavy duty and off-road applications.

The C-MEC 138 is designed for installation in the cabin and has a high level of customization.

It is ideal for new applications and for those who already use the MTA 5-way frame, with which it is perfectly interchangeable.

MAIN FEATURES

Press-fit technology.

CUSTOMIZATION LEVELS

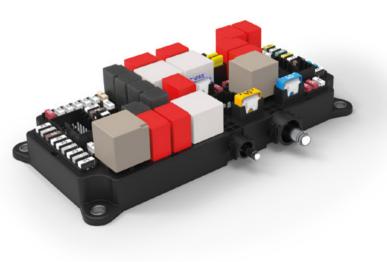
There are 3 customization levels Soft, Medium and High, where:

- means "customizable component",
- means "default component".

	Soft	Medium	High	
Fuses and relays	\checkmark	\checkmark	\checkmark	
Type and number of contents (mask)	-	-	~	
PCB	-	\checkmark	\checkmark	
Connectors	-	-	~	•
Connectors	_	-	~	-

MEGA

MODULAR ELECTRICAL CENTERS



MODULAR ELECTRICAL CENTERS

MEC 97 WATERPROOF

Designed for the engine compartment, this Modular Electric Centers is intended for the distribution of power and the protection of major utilities in agriculture, construction, heavy-duty and offroad applications.

It is plug & play products with rational design and compact dimensions.

MAIN FEATURES

- Press-fit technology.
- A Gore-Tex vent provides a barrier against water and dust and allows the free circulation of air, avoiding the formation of moisture.
- MEC can be fixed in flat, inclined or vertical position.
- Appropriate latches preload the cover against the seal and close the MEC.
- The cover is tethered to the body to ensure it won't be displaced.
- Anti-vibration system integrated inside the fixing points.

CUSTOMIZATION LEVELS

- means "default component".

	Soft	Medium	Medium ⁺	High
Fuses and relays	\checkmark	\checkmark	\checkmark	\checkmark
Type and number of contents (mask)	-	-	~	~
PCB	-	~	~	~
External connections (studs and connectors)	-	-	-	~

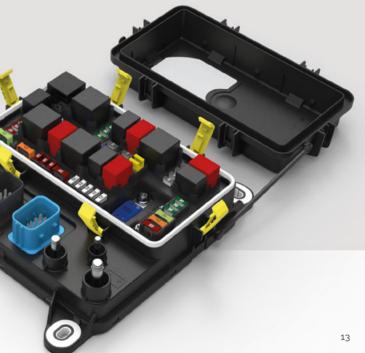
Accepts 3 MaxiCompact (+3 spare), 34 MiniVal (+3 spare), 1 MegaCompact, 1 MidiVal, 8 Micro relays, 5 Maxi relays.

CAN MODULE

The CAN Module Plug-in, connects the MEC with the CAN Bus line to generate the actuations needed. At the same time, the Module, through the CAN Bus line, transmits the diagnostic information. The CAN Bus Module can be programmed through MTA Studio, an in-house developed code composing tool.



MODULAR ELECTRICAL CENTERS



MODULES

WATERPROOF MODULES

Vehicles operating around water and mud need advanced environmental protection. Our range of watertight modules has been developed to satisfy this need. All terminals are equipped with a grommet and a radial silicone seal housed between the module and its cover keeps the modules secured tightly.

Modularity is the core philosophy behind these products: all modules can be used interconnected or stand alone and fixed with dedicated mounting brackets. They can all accommodate fuses, relays, or both.

WATERPROOF

0301370

30 MiniVal fuses or 10 Micro 280 relays or mixed relays and MiniVal fuses

0301491

6 MiniVal fuses 1 MaxiVal fuse 2 Maxi relays 1 Micro relay

0301568

18 MiniVal fuses 4 Micro relays

0301373

18 MiniVal fuses 4 Micro relays Integrated mounting brackets



MODULES

0301569

- 6 MiniVal fuses
- 1 MaxiVal fuse
- 1 Mini relay
- 3 Micro relays

0301374

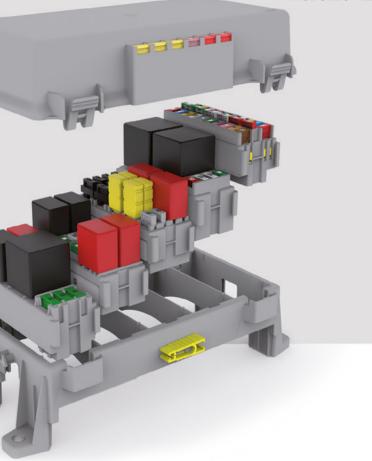
6 MiniVal fuses 1 MaxiVal fuse 1 Mini relay 3 Micro relays Integrated mounting brackets

FRAMES, BRACKETS, COVERS & MODULES

We offer 15 modules and a variety of frames, covers, and brackets to build a wide range of flexible modular solutions for holding fuses, relays, or diodes. All of these products are equipped with secondary locks to guarantee maximum safety and high performance. They are built to resist stress and provide reliable technology.

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MODULES



MODULES





0301460 26 MiniVal fuses 0301640

20 diodes or 20 MiniVal fuses



0301564 8 MiniVal fuses 4 Micro relays



0301484 6 Micro relays



0301470

6 MaxiVal fuses



0301510

10 MiniVal fuses 1 Maxi relay



0301494

1 Maxi relay 1 Mini relay



0301660

2 Maxi relays



0301504

4 MiniVal fuses 2 Mini relays



0301695

3 MaxiCompact fuses 1 Maxi relay 2 Micro relays



0301697

5 MiniVal fuses 5 MaxiCompact fuses 3 M8Compact fuses



0301698

20 MiniVal fuses or 20 circuit breakers or 20 diodes or 6 Micro 280 relays or mixed





0301564

3 MaxiVal fuses 6 UniVal fuses



0301690

4 MiniVal fuses 6 type A1 S fuses



0301375

8 MiniVal fuses 1 OBD connector



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