

MTA at IAA Transportation 2024

Electrical components for the electrified platforms of trucks

Hannover, 17th September 2024. MTA, a multinational company operating in the global automotive sector through two divisions – Electrical and Electronic – will be present for the first time at IAA Transportation 2024 (Hall 22, Stand A13) with its dedicated range of solutions for heavy commercial electrified vehicles.

Having its main specialization in power distribution and vehicle electric system protection, MTA counts many different truck manufacturers among its most important customers and, recently, it has developed specific Power Distribution Units (PDU) for electrified platforms of major OEMs in this sector.

MTA's HV PDUs for electrified trucks feature a complex technology. High voltages require in fact specific materials, design systems and production technologies

The HV PDUs developed by MTA use cast aluminum for the housings instead of plastic, typically used in low voltage products, thus ensuring robustness, insulation from external agents, optimal heat dissipation and correct EMC shielding. Aluminum is used for the busbars too being this metal lighter than the copper traditionally used for this kind of components.

The aluminum used by MTA has a high percentage of recycled raw material, confirming its commitment to the sustainable development of the business and to the reduction of the environmental impact.

The HV PDUs developed by MTA for major OEMs also stand out for their modularity, which allows customers to use the product for different platforms. They also feature integrated active cooling systems; an internal resin layer and a new technology for gaskets that ensure waterproof features and electrical insulation without compromising optimal heat dissipation.

Another example of PDU developed and produced for trucks, is the Pyro module, specifically developed for the heavy and medium zero emission trucks of a well-known German American manufacturer of heavy commercial vehicles.

Mounted under the dashboard in the cabin, the pyro module developed by MTA is mainly composed of a battery switch and a squib-type connector and has the function of disconnecting the electrical system in the event of an accident. In fact, if the airbag is triggered, the squib connector linked to it immediately activates the battery switch.

The module is supplied with lid, already assembled and it stands out for its high resistance to vibrations, shocks, corrosion and chemical agents, in accordance with the specific characteristics required by the customer during the design phase.






Antonio Falchetti, Executive Director of MTA, comments: "Major deliveries of electrical components for HV platforms of several global OEMs in the truck industry are proof of the increasing appreciation of our HV products. We have, in fact, started for some years now an in-house development and production of various components for the needs of the new mobility. These include other solutions like OBCs and DC/DC converters, and we are working on new products that will be launched soon," Falchetti concludes.

Images

	<p>MTA's HV PDUs</p>
	<p>MTA's Pyro module</p>

MTA S.p.A. is a multinational company operating in the automotive sector through 2 Business Units: Electrical and Electronic. From design to industrialization, MTA produces a wide portfolio of components for the primary manufacturers of cars, motorcycles, trucks, agricultural and earth moving machines.

Founded in 1954, MTA globally owns 11 sites, 3 technical sales offices and 1 R&D centre. Nowadays, MTA employs 1,937 people and has a turnover of € 398 million, the 10,5% of which are invested in R&D.

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