

A Junction box for the electric vehicles by Stellantis

Codogno (Lo), October 11th, 2022. MTA, a multinational company operating in the global automotive sector through 3 Business Units – Electric, Electronic and Power Electronic – showcases during IZB (Hall 2 Stand 2409) a new junction box developed for ë-Berlingo and e-Partner, the new generation of multipurpose commercial vehicles produced by Stellantis. Both developed on the group's EK9 electric platform, the two vans by CITROËN and PEUGEOT feature a more economical driving style: gentle acceleration and regenerative braking allowing you to maximize the range.

The junction box developed for the two vans ë-Berlingo and e-Partner is a 450 V unit installed in the battery pack compartment, which on the one hand supplies current to the electric motor and, on the other, recovers energy during braking to recharge the battery. The unit contains an HV fuse and a PCB (Printed Circuit Board) that allows the current, voltage and battery charge to be measured.

The busbar developed for the junction box of ë-Berlingo and e-Partner is blanked in the MTA site in Codogno, the PCB is assembled in Rolo, the site specialized in electronics, and the plastic is molded by MTA Morocco where the final assembly is also carried out and the product forwarded to the Stellantis facility in Spain.

MTA currently offers a comprehensive electrification range which also includes Junction Boxes and high-voltage power distribution boxes (PDUs), already installed on electric and hybrid cars from several major manufacturers.

For the development of electrified architectures, significant investments have been made by MTA in terms of R&D and production techniques. The use of specific materials also required the complex search for new suppliers, resulting in new evaluation and qualification processes. MTA has been able to create a short supply chain, mainly EMEA, achieving two main advantages: reduced design development times with experts in new manufacturing technologies and less CO2 emissions.

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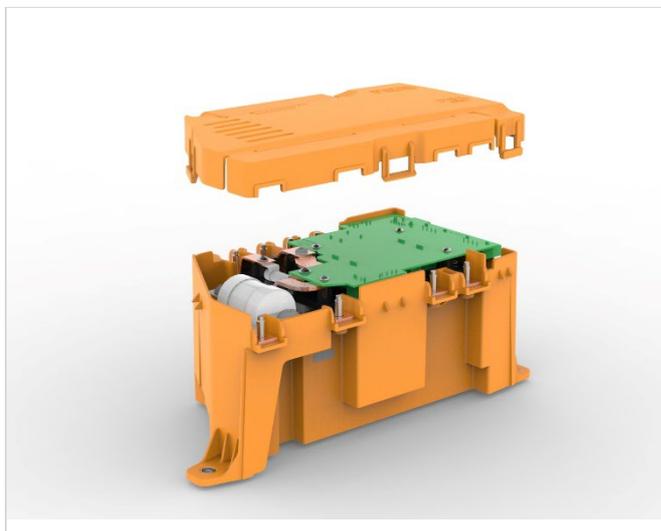
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Images



The new junction box developed by MTA for ë-Berlingo and e-Partner, the new generation of multipurpose commercial vehicles produced by Stellantis.

MTA S.p.A. is a multinational company operating in the automotive sector through 3 Business Units: Electrical, Electronic and Power 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 10 sites and 4 technical sales offices. Nowadays, MTA employs 1,715 people and has a turnover of € 243 million, the 11,4% of which are invested in R&D.

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