

BHP19 and BHP22

The new on-board battery chargers (OBC) for off-highway applications

Cinisello Balsamo (Milan), Italy, March 14th, 2023. EDN, a global Italian leading company in the development and production of on-board battery chargers and power converters intended for electric and hybrid vehicles and part of MTA, will showcase during *CONEXPO-CON/AGG* in Las Vegas (Stand S62617) the new on-board battery chargers BHP19 (for the US) and BHP22 (for Europe), for electric and plug-in hybrid applications in the off-highway sector.

BHP19 and BHP22 are lightweight and compact; they feature power class 19.2 kW and 22 kW respectively, both single or three-phase AC power, and they stand out for a conversion technology that improves power density and specific power, and for bidirectionality that enables power to flow in two directions, to and from the battery.

The bidirectionality of BHP19 and BHP22 allows the vehicle to export power to supply standard electrical loads (V2L), which can be used as standby power for houses or farms, charge another EV (V2V), as well as plugged to a smart-grid network to provide stability to the grid via Vehicle-to-Grid (V2G) mode.

BHP19 and BHP22 are characterized by high resistance in particularly demanding environmental conditions and by galvanic isolation that ensures clear separation of the vehicle from the grid, providing maximum operational safety.

Both OBCs are tested and validated to comply with international standards and regulations and qualified according to the stringent specifications of OEMs.

BHP19 and BHP22 add to the wide range of compact, robust and reliable OBCs that EDN produces with voltages up to 1,000 V and powers up to 22 kW for full electric or plug-in hybrid vehicles in heavy-duty applications.

Thanks to EDN products, MTA (who acquired 80% of the shares) is today able to offer its customers a wide range of solutions for the electrification, with a product portfolio ranging from the electric components to power electronics.

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Image



BHP19 is the new on-board battery chargers proposed by EDN for off-highway applications

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 1,780 people and has a turnover of € 300 million, the 11,4% of which are invested in R&D.

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EDN S.r.l., founded in 1993, is a Company operating at international level, with a steadily increasing market share and a leading position in the electric and hybrid vehicles markets. The Headquarters, with an advanced R&D department and a best-in-class manufacturing production facility, are situated in Cinisello Balsamo (Mi). The Company also has technical and commercial staff in the USA to support local customers. Since May 2021, the 80% of shares of EDN belongs to MTA.

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