

ADVANCED ON-BOARD BATTERY CHARGERS FOR HARSH ENVIRONMENTS



MTA develops and manufactures on-board battery chargers under EDN brand for a wide range of plug-in hybrid electric vehicles or pure electric vehicles, such as for example buses, trucks and vans, boats, underground vehicles and more.

The OBCs supplied by MTA cover voltages up to 1000 V, are easy to be integrated in the vehicles, and deliver prime durability, scalable and sealed solutions. They are built to resist hard environments and can be installed in any rugged application.



E-TRUCKS



E-TRACTORS



OFF-HIGHWAY E-VEHICLES



E-BOATS



Read more about MTA on-board battery chargers on www.mta.it/en/power-electronics

BHP22 & BHP19

BHP22: 22 kW AC three-phase bidirectional operation (7.3 kW AC single phase)

BHP19: 19.2 kW AC single-phase bidirectional operation

Parallelable in charge and export power mode

AC charger - SAE J1772 and EN 61851 compliance

DC fast charging (CCS) communication – ISO 15118 and DIN 70121 compliance

Export power (V2L) and V2G (ISO 15118 compliance)

AC plug locking/unlocking management

HVDC interlock monitoring

Typical efficiency >94%

AC/DC galvanic isolation

Functional safety (ASIL-B) and cybersecurity compliant

IP67, IP6K9K protection rating

HVDC outputs are short-circuit and reverse polarity protected

Fully CAN monitored and controlled (v2.0B and FD)

SAE J1939 and ISO 14229 (UDS) compliant

UL1741, IEC61851 compliant

