



TECHNOLOGY APPLIED TO PMAs

WHO WE ARE

Since 1978 we have been designing and building electrical and electronic systems tailored on the customer's needs, combining their specific know-how with our consolidated experience to develop the most suitable solution. The company's main focus is customer satisfaction, achieved through Quality and Innovation, the founding pillars of our mission.

The sectors in which we operate are often niche and highly specialised, thus requiring a team of highly trained specialists, as well as a network of high-level external collaborations (universities and private institutions).

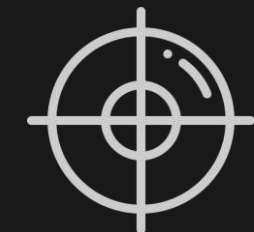
We develop in-house electronic control systems, mechanical equipment, generators and electric motors, paying particular attention in balancing cost, quality and performance.



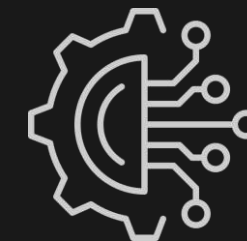
QUALITY



CREATIVITY



PRECISION



INNOVATION



EFFICIENCY



REPUTATION

"Every company's greatest assets are its customers, because without customers there is no company."

-Michael LeBoeuf-



WHAT WE DO and how we do

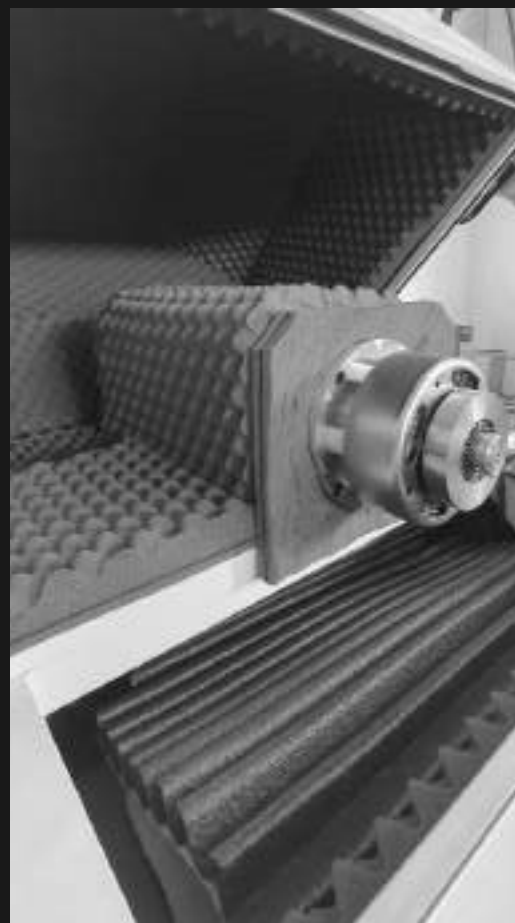
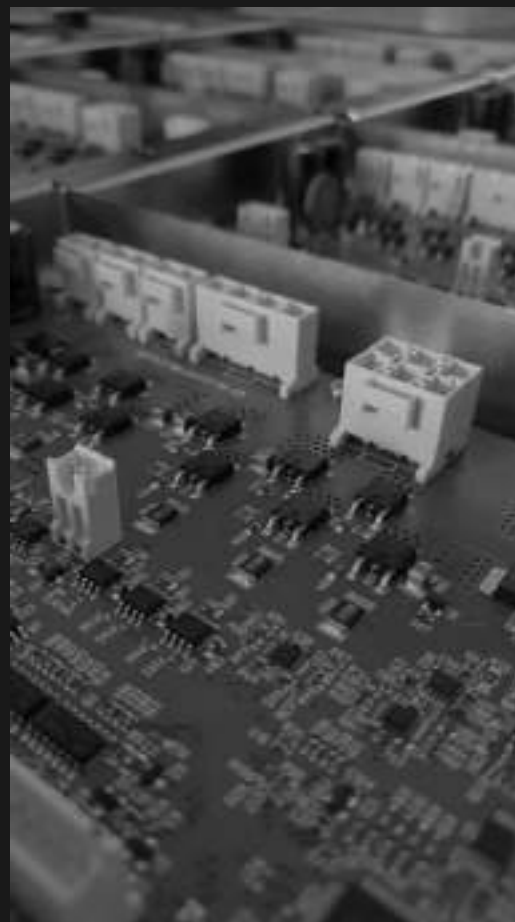
The skills acquired over the years have enabled IDM to operate in high-tech sectors such as robotics, hybrid vehicles, unmanned aircraft unmanned aerial vehicles (UAVs), medical equipment, power generation for Telecom & Security applications.

Our products meet international standards for environmental electromagnetic compatibility and vibration in both civil/industrial and military applications.

We have laboratories equipped for vibro-acoustic, thermal, functional and EMC testing and analysis.

Each product is designed, manufactured and validated in the plant of Montebelluna.



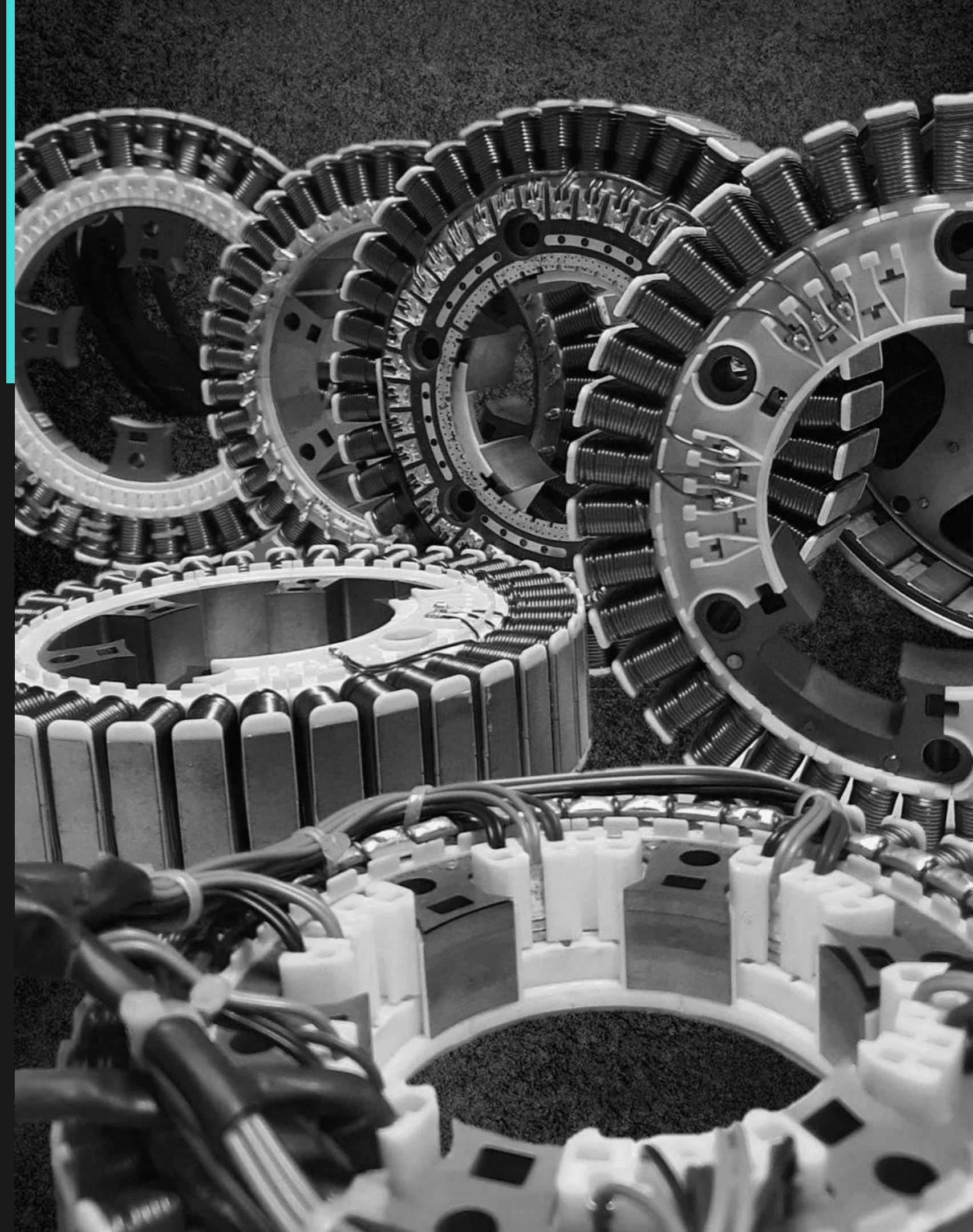
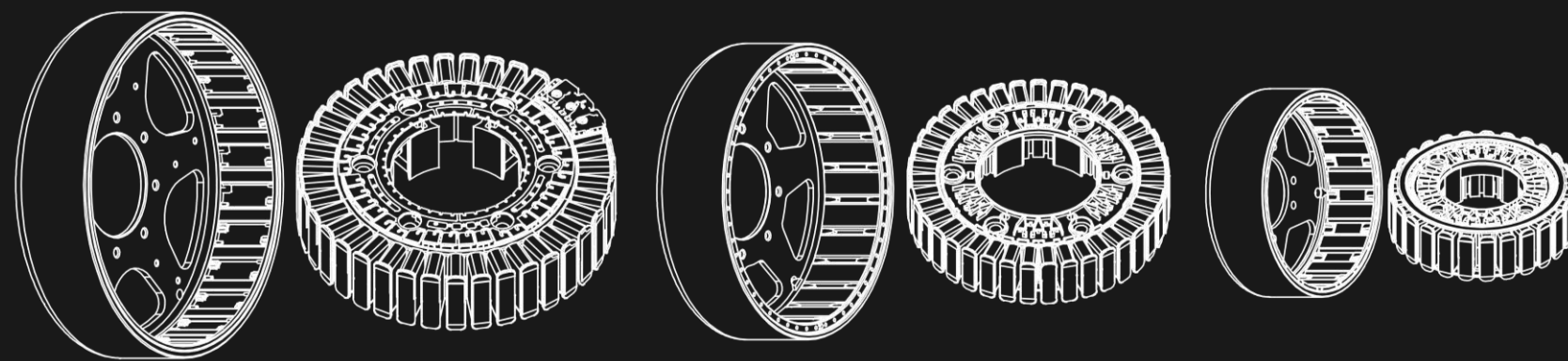


PMA ALTERNATORS

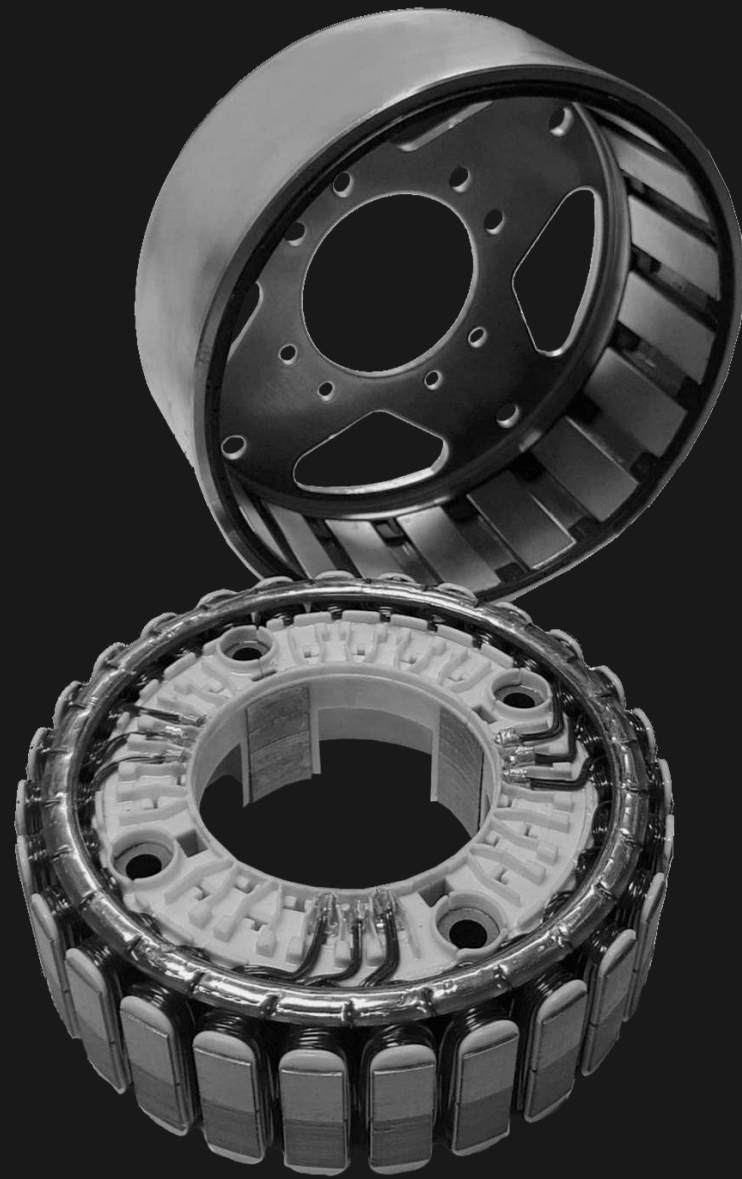
The production of Permanent Magnet Alternators ranges from a few watts up to 70 kW of rated power and dimensions up to 1 meter. The study of innovative configurations of magnetic circuits, developed through simulation programs and real tests, allows achieving extremely high efficiency values and power-to-weight ratio.

The characteristic radial development construction shape allows for particularly compact systems appreciated in the fields of electrical generation and traction (e-mobility).

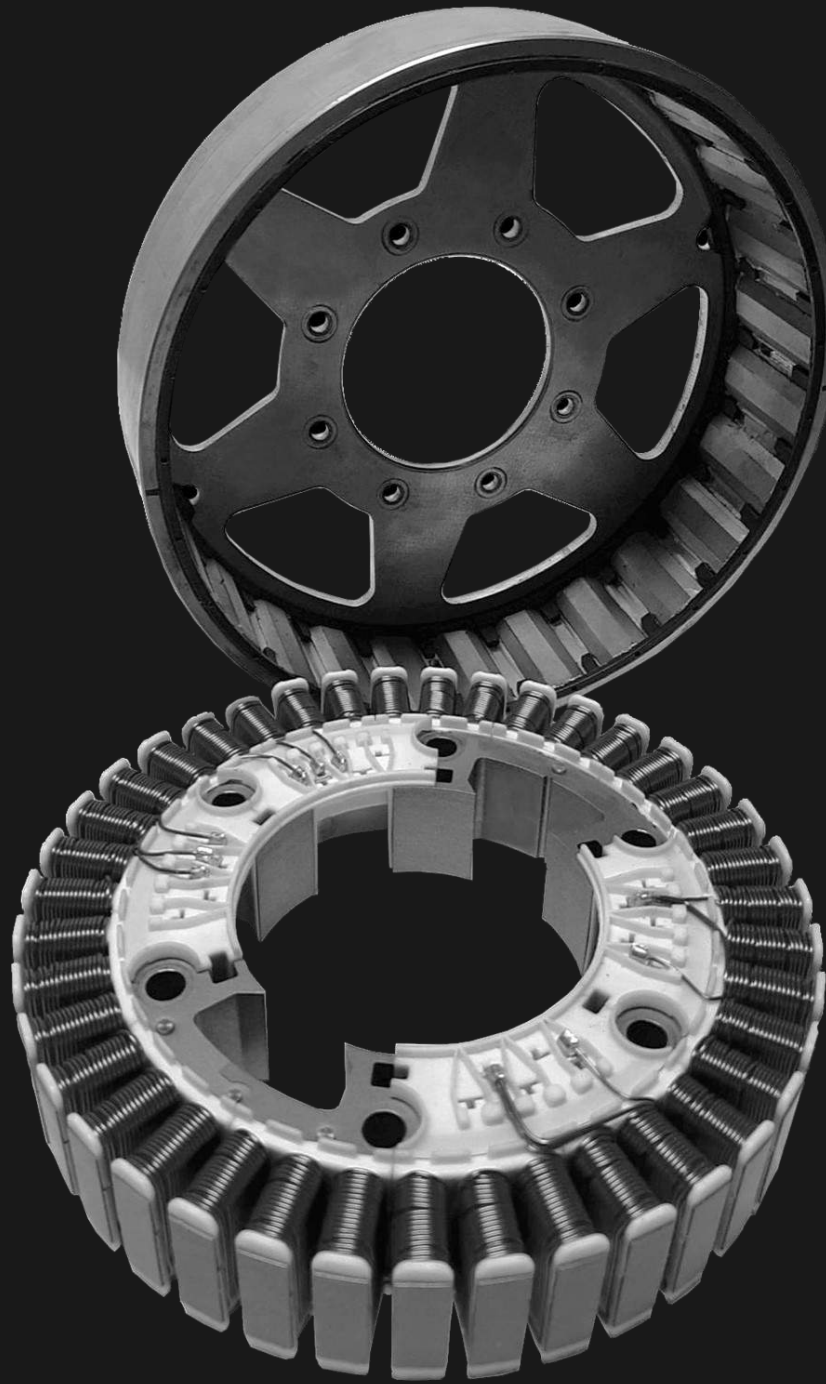
The combination with IDM electronic converters ensures high flexibility and optimal performance.



PRODUCTS EXAMPLES



Ø156 Stator
2kW to 5kW PMA

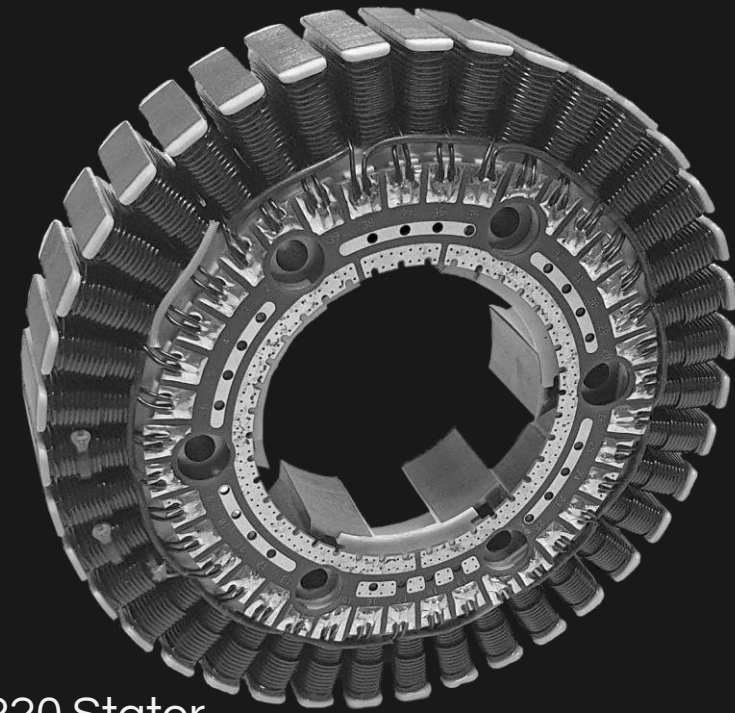


Ø220 Stator
5kW to 10kW PMA

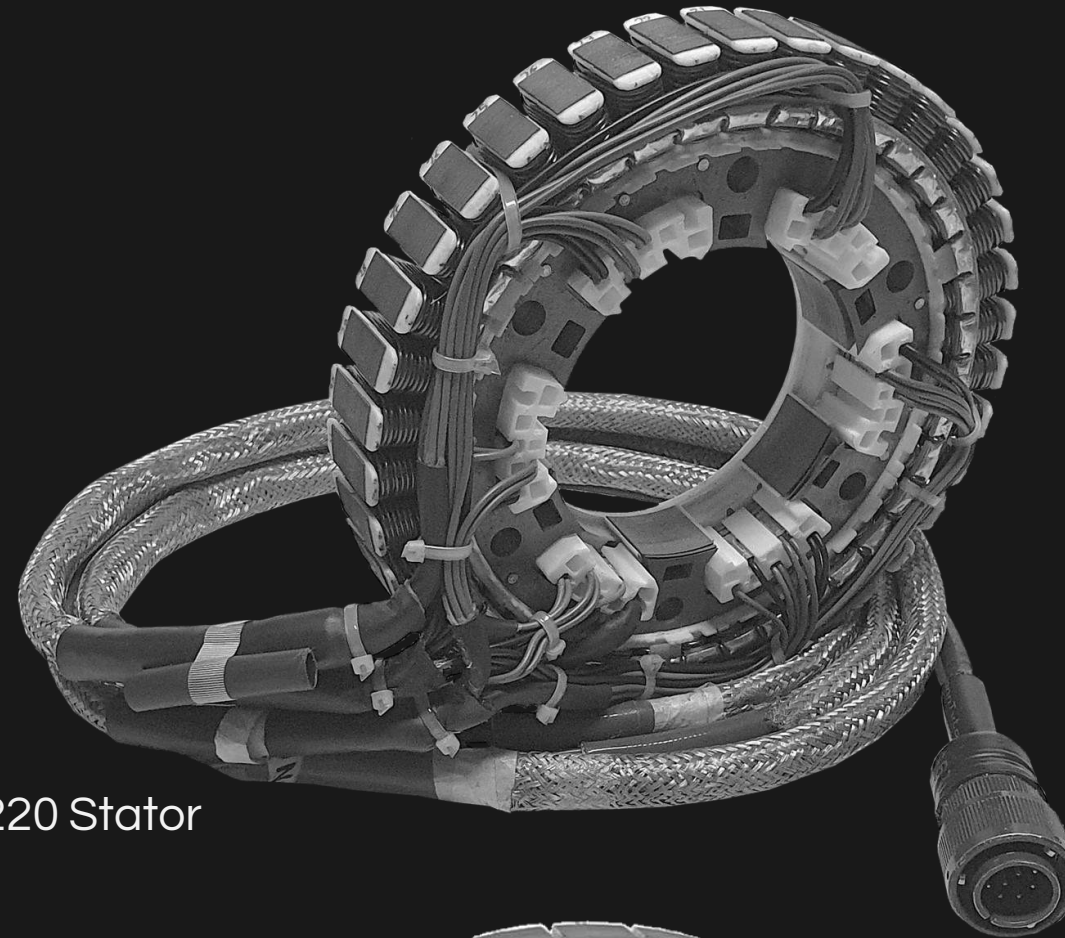


Ø248 Stator
10kW to 30kW PMA

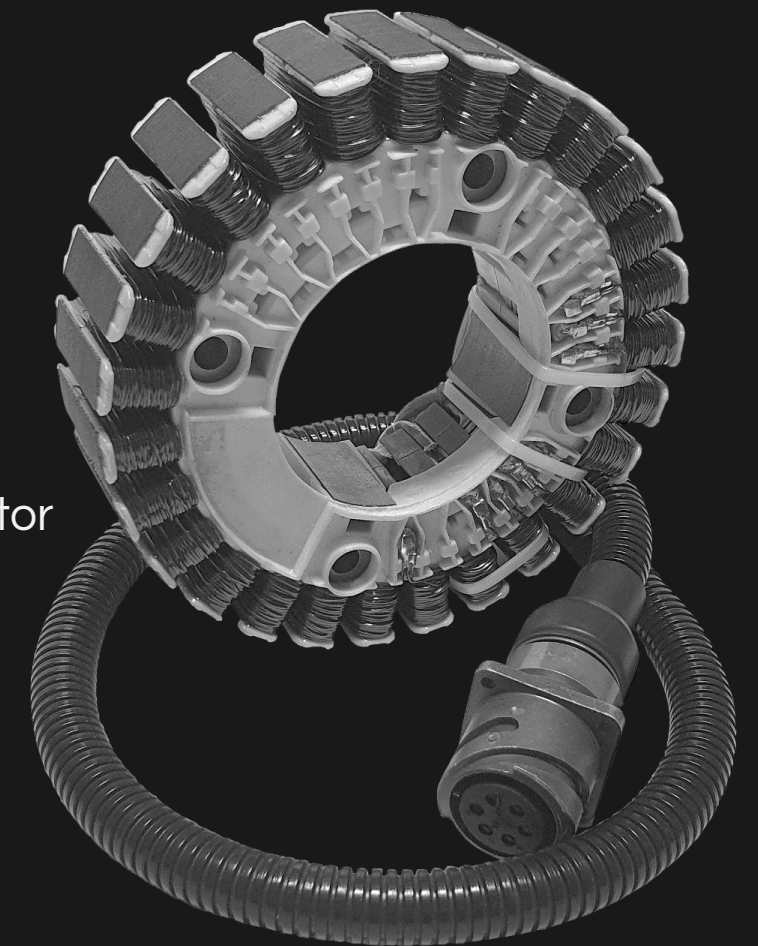
CIVIL AND MILITARY STATORS EXAMPLES



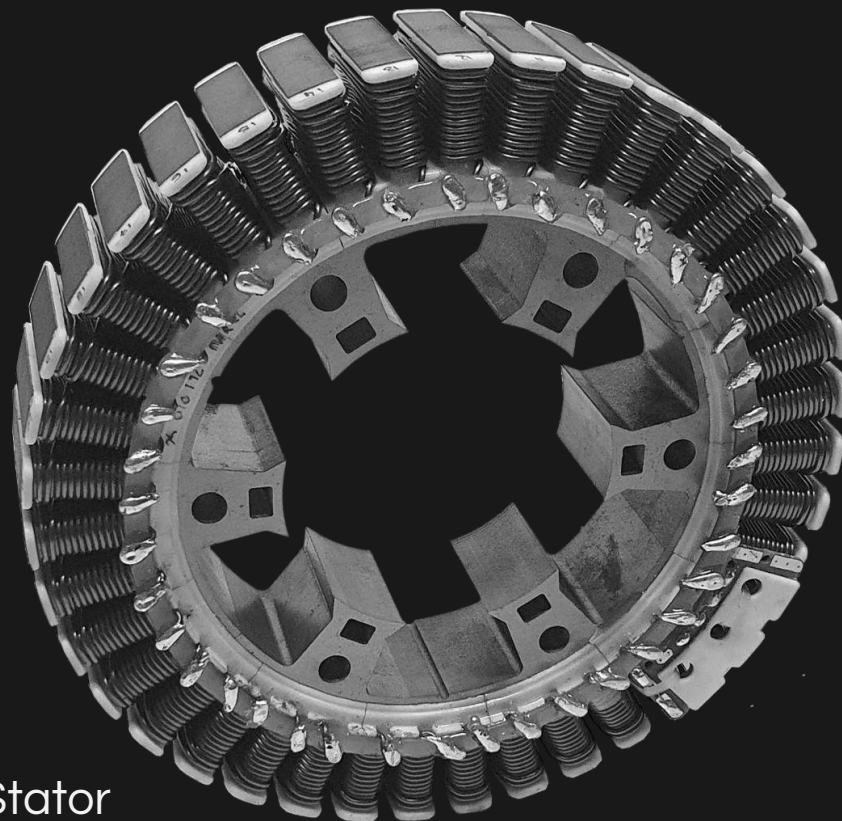
Ø220 Stator



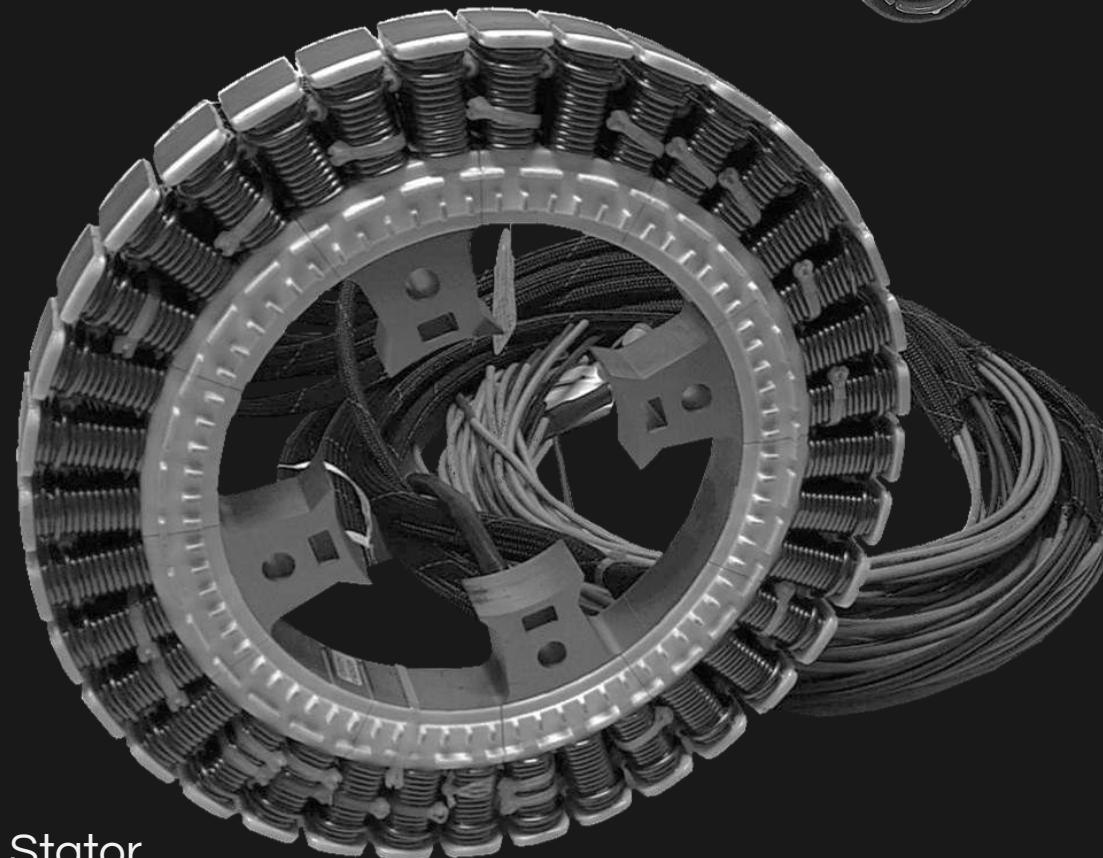
Ø220 Stator



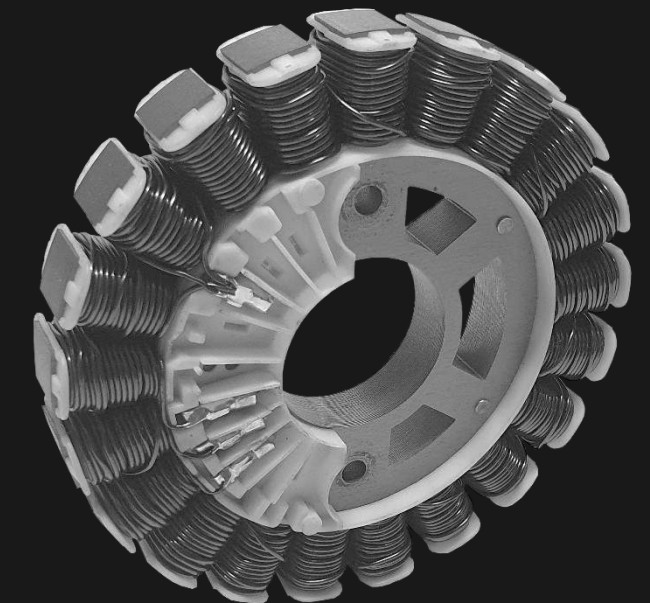
Ø156 Stator



Ø248 Stator



Ø286 Stator



Ø120 Stator

CONVERTERS

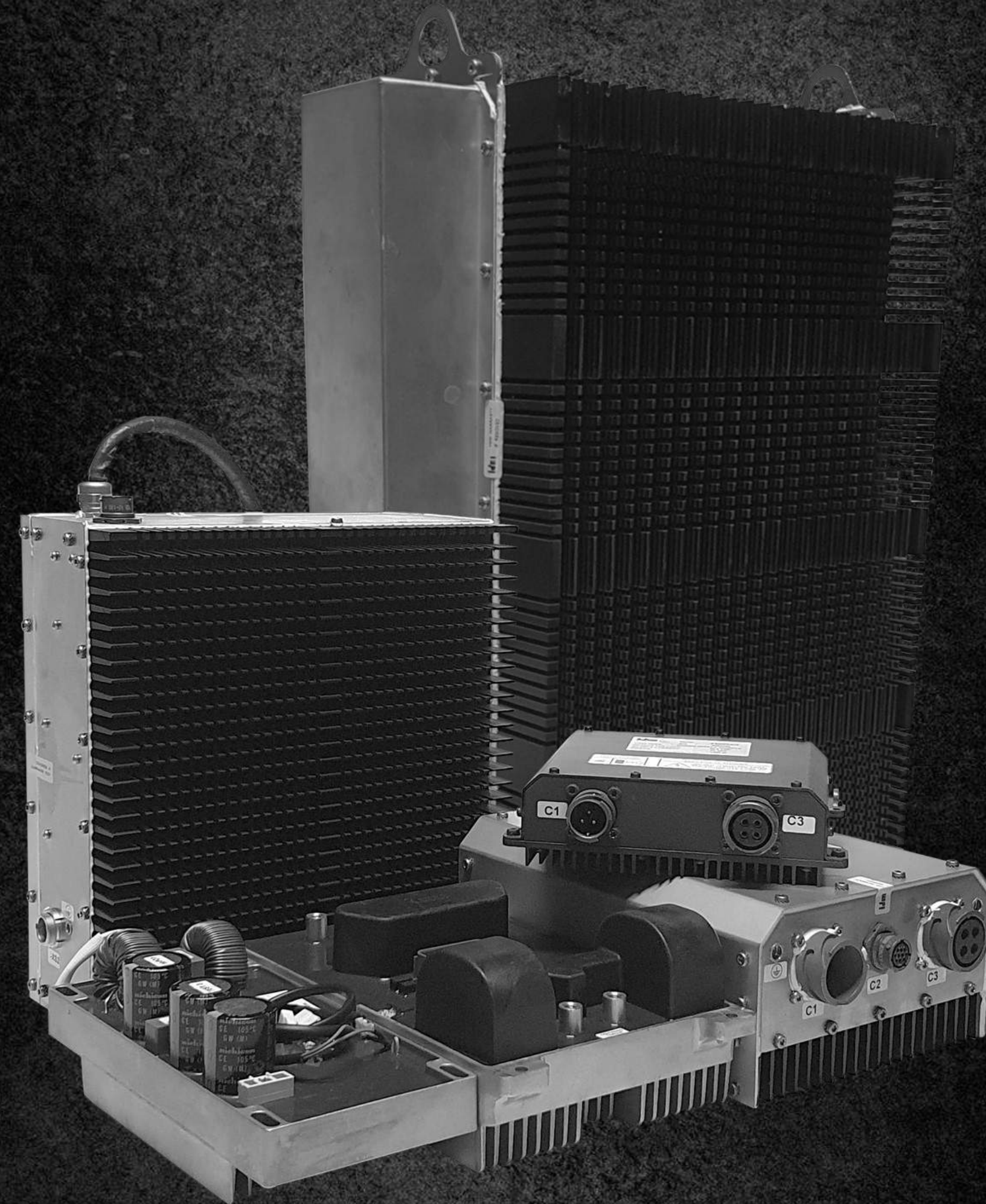
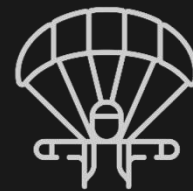
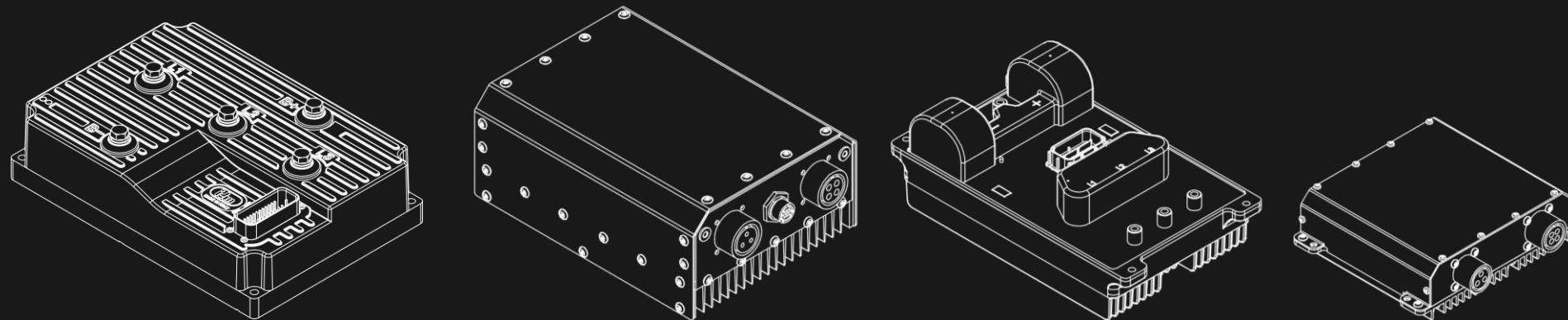
- AC/AC with sinusoidal outputs at standardized voltages.
- AC/DC and DC/DC for battery charging and load power supply.
- Bidirectional DC/AC motor controller with Engine Starter function.

All are paired with their own permanent magnet alternator.

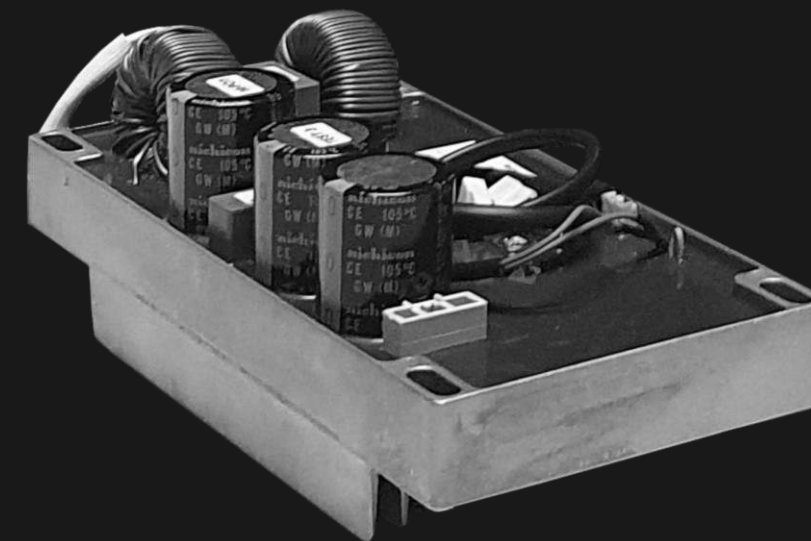
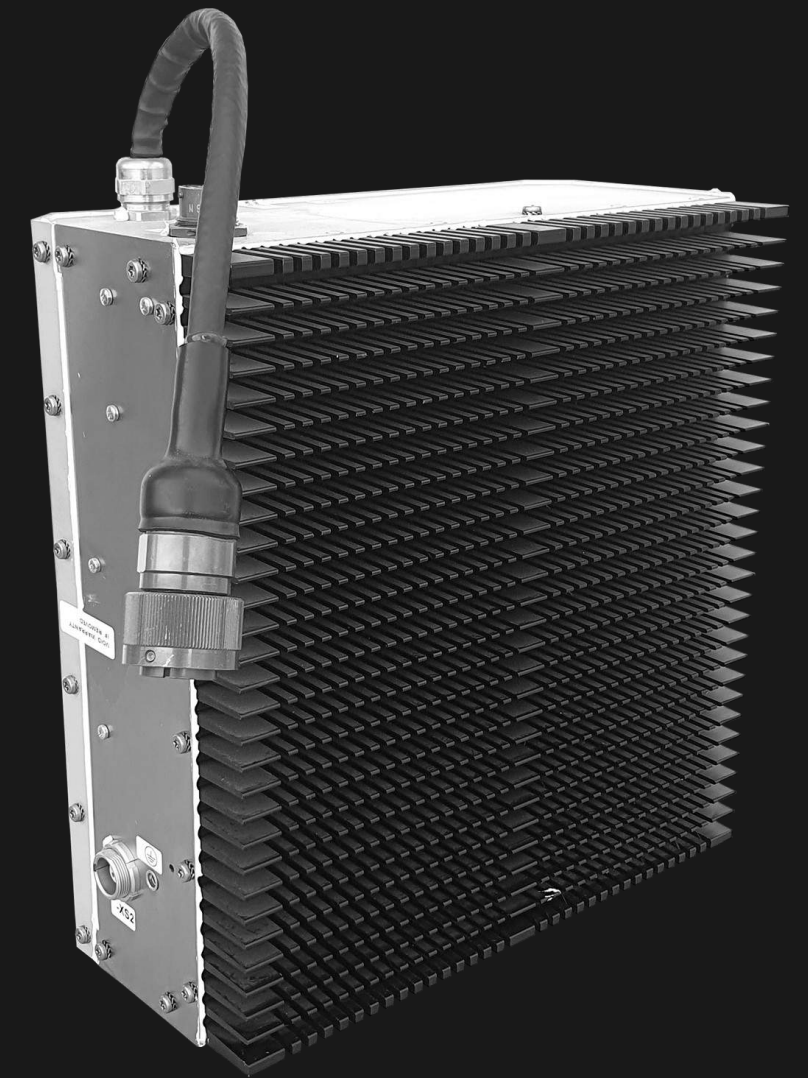
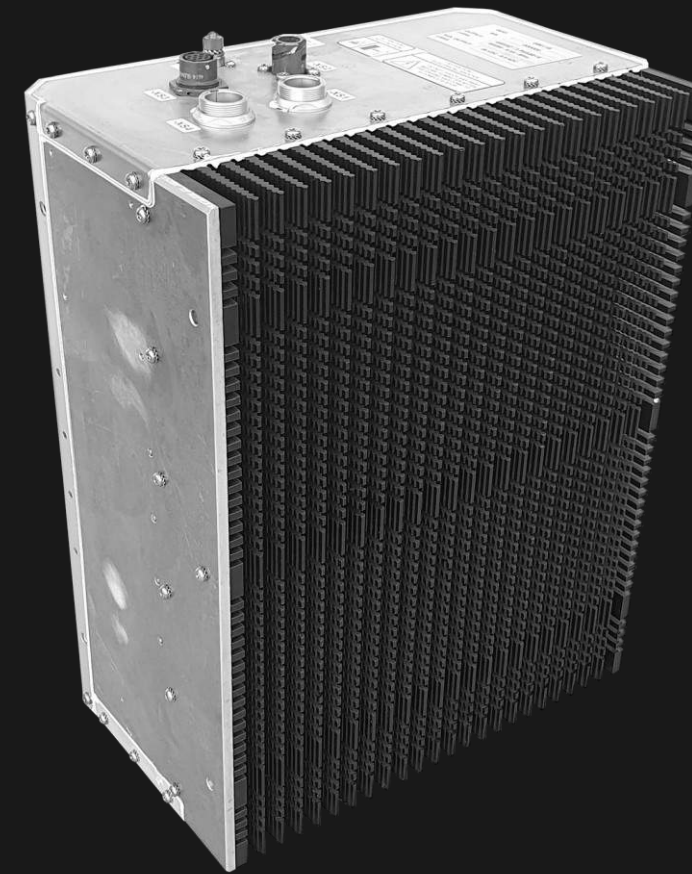
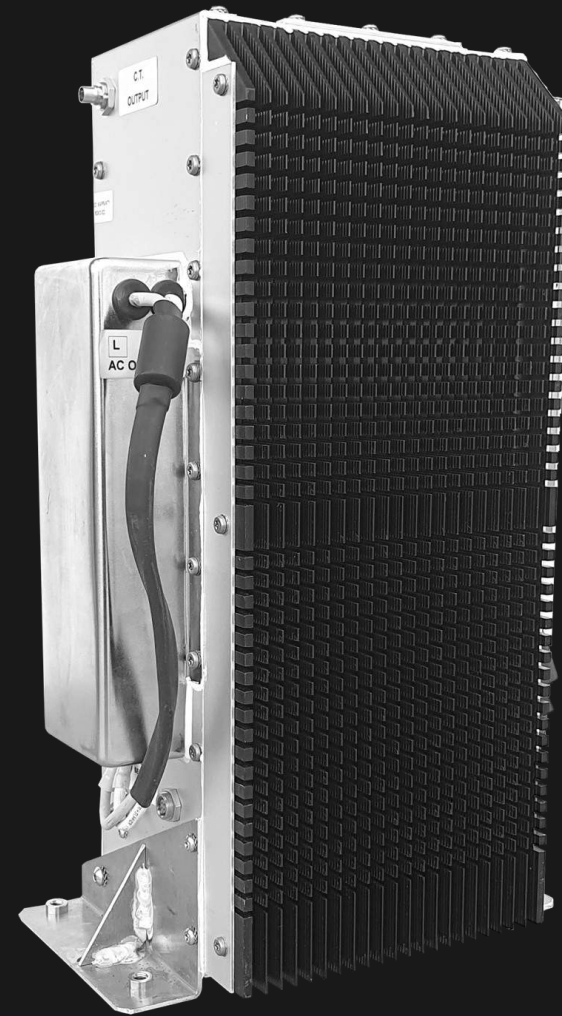
IDM's range of converters is extensive and, in most cases, designed to customer specification.

The design and construction choices adopted allow our converters to be certified according to the most stringent environmental, vibrational, and EMC regulations.

Our converters boast efficiency values among the highest available on the market.



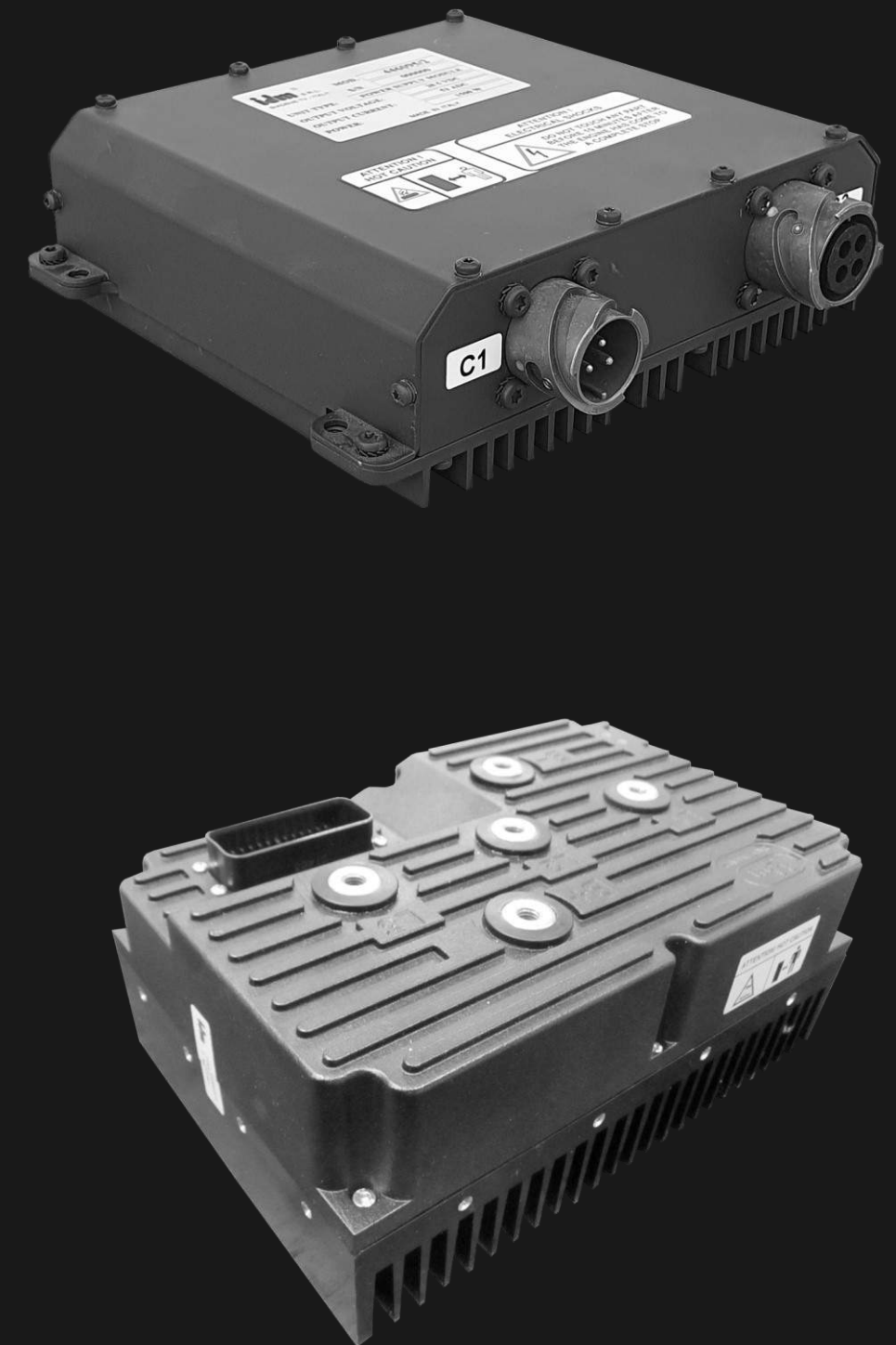
AC CIVIL AND MILITARY CONVERTERS EXAMPLES



DC CIVIL AND MILITARY CONVERTERS / STARTERS EXAMPLES



MOTOR CONTROLLERS





IDM S.r.l.

Via Feltrina Sud, 28_31044

Montebelluna (TV) ITALY

+390423300222

www.idm-srl.it