

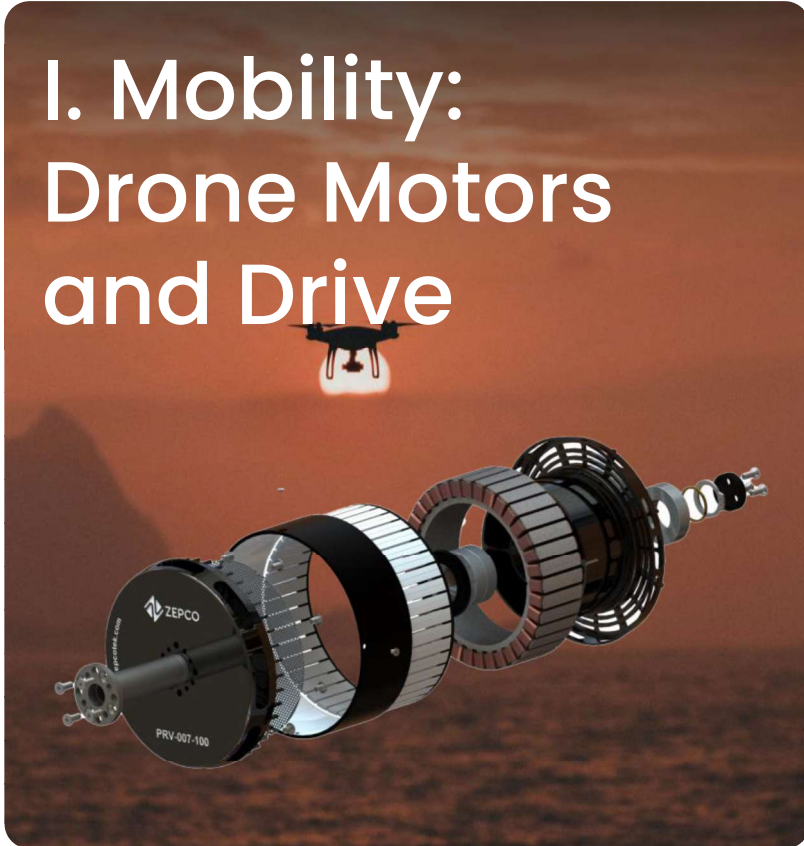
A Mobility and Power Electronics Company



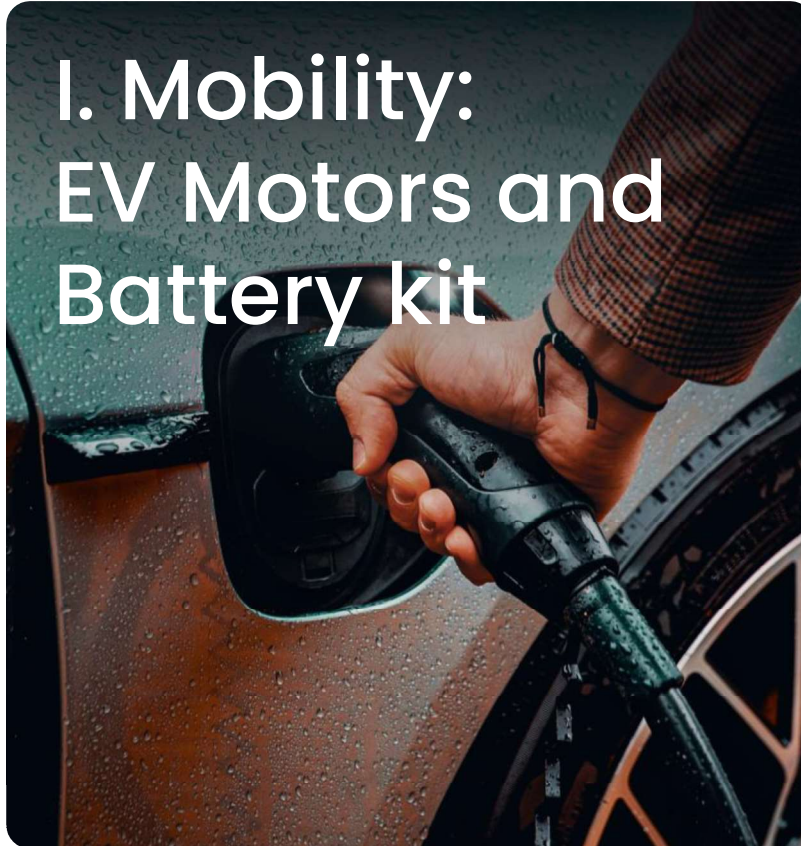
Products

Our team brings engineering and scientific innovation to Zepco's products in two broad segments viz. Mobility and Power Electronics

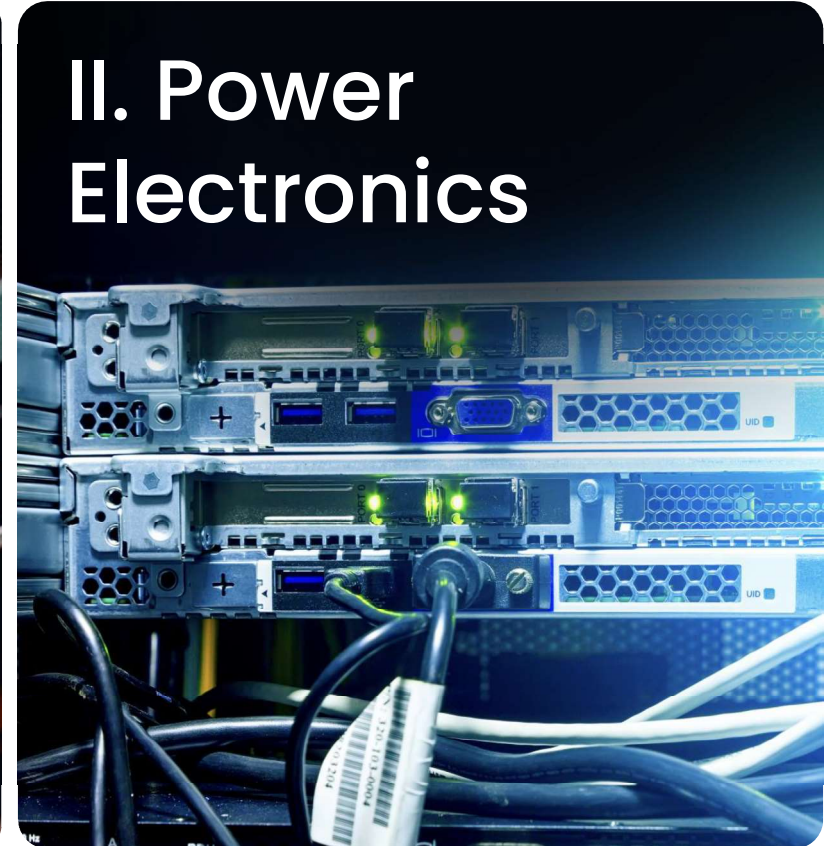
I. Mobility: Drone Motors and Drive



I. Mobility: EV Motors and Battery kit



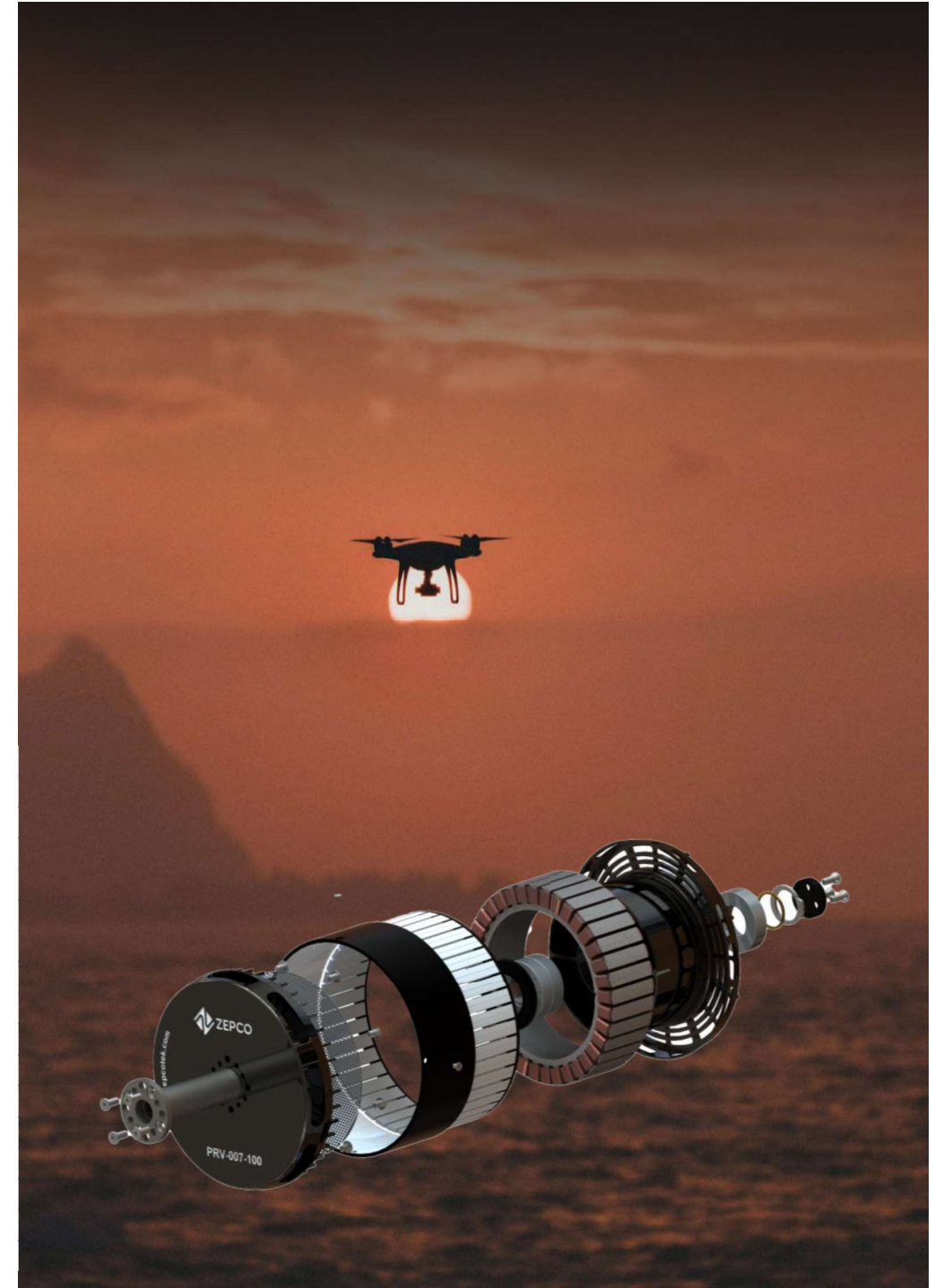
II. Power Electronics



Drone Motors and Drive

- Sectors: Logistics, agriculture, and defense
- Key player: T-Motors (China 80% market share)
- Our achievements –
 - a) Design & manufacture –
 - Motors and Power electronics drives & controllers (ESCs) from 300W to 40kW
 - Battery storage & Battery Management Systems (BMS) and
 - Battery chargers
 - b) High-efficiency, feature-rich controllers and drone motors with
 - Best-in-class power density
 - Lowest weight to thrust
 - c) Tests @ UmlingLa, Kupwada, Baramulla, and Tawang (40 Kmph wind speeds)
- Goal: Global entry by 2027-28

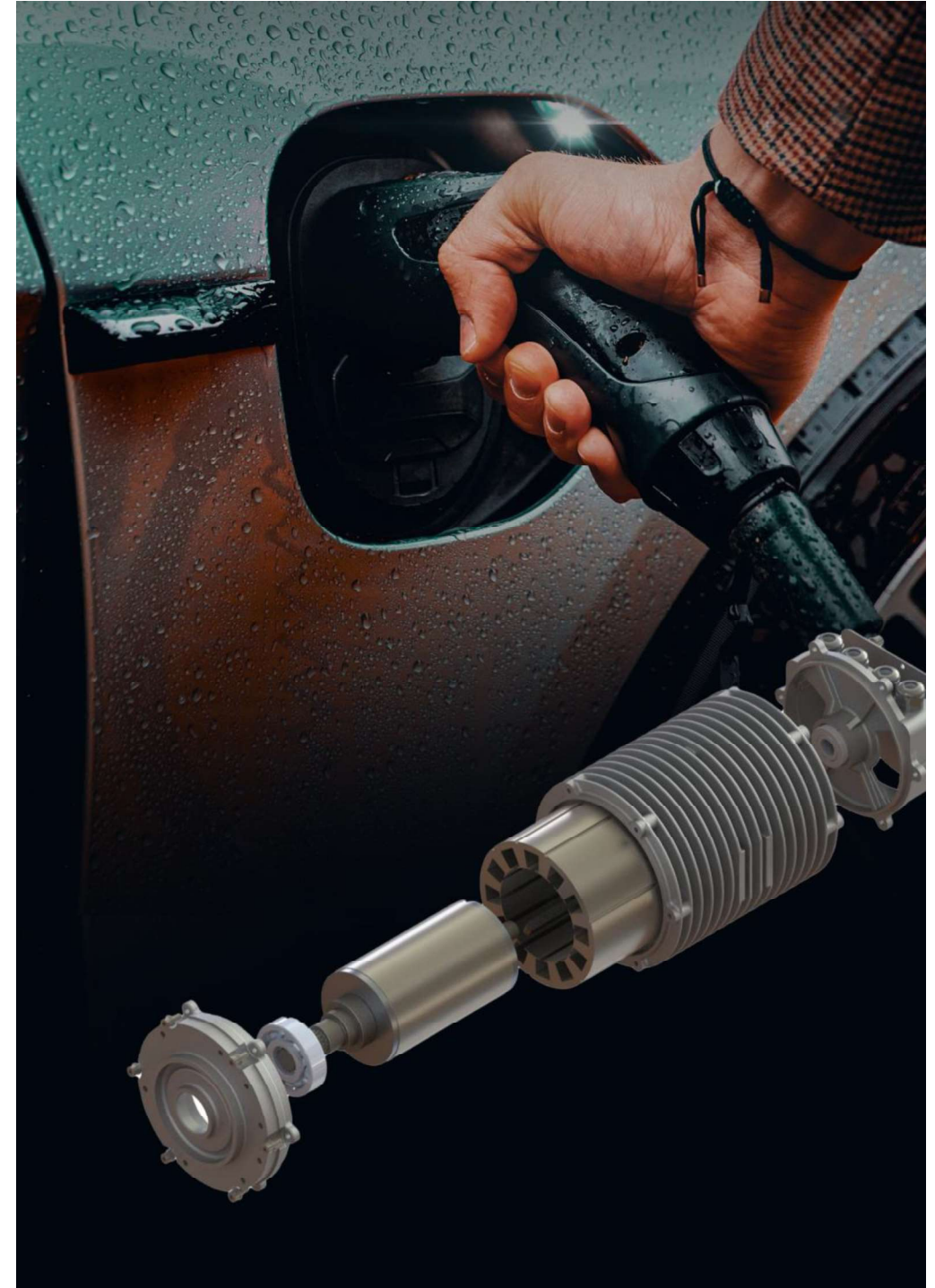
World Record: Demonstrated 30 Kg payload carry at 19,000 feet at Umling La Pass, Ladakh, India



EV Motors and Battery Kit

- Sectors: Heavy vehicles, Cargo, LCV, and Tractors
- Our achievements
 - a) Diverse Range: 4 kW to 250 kW of electric propulsion range
 - b) Cost-Effectiveness: High-performance drive system at competitive cost globally
 - c) Prototype: A fully built custom cargo vehicle with our propulsion system available and being tested. Focus: 50 to 500+ km on a single charge, fast charging.
- Goal: Proprietary technology adaption for various local vehicles and as a second stage, to scale globally

Both motors and controllers are designed & tested in-house to achieve the highest system efficiency for the entire drive chain



Power Electronics:

- Sectors: Indigenous products for defense electronics & hydrogen production)
- Our achievements
 - a) 360 kW Class D Amplifier
 - b) Water-Cooled Power Supplies
 - c) Programmable Power Supplies (1 kW to 50 kW)
- Reliability and Durability: Meet strict standards for reliability and performance in demanding conditions

Qualified + approved vendor for defense (BEL, DRDO, etc). Entire proprietary product pipeline @ 75%+ margins



Mobility



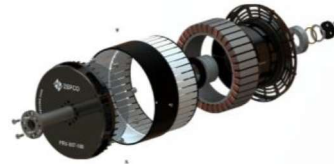
16kW Drone motor – High altitude defense variant (world record set at 19,000 feet lifting 30Kg)



16kW Drone motor – Low altitude logistics variant



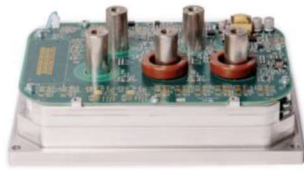
Drone motor controller



Blow-up of Drones 100%



Large motor variant for Ideaforge 500Kg class drones (first type of UAV flights in that class)



12kW vehicle motor controller



12kW LCV motor

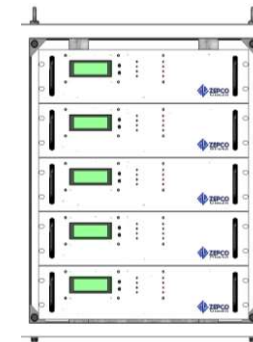


Motor controller and Vehicle Controller (Integrated MCU + VCU)

Power Electronics



365kW Class D Amplifier



50kW Power supply rack-mounted system



10kW Water-cooled power supply