

Intelligent Fault detection

Driver Information System

Enhanced Safety

Funded by



Ministry of Electronics & Information Technology Government of India



Made in India

Unmatched features

Enhanced Thermal Performance

Designed & Developed by

Indian Institute of Technology Kharagpur Industry Partner



1.2kW BLDC Motor

Rated Torque: 4Nm @ 2800 RPM

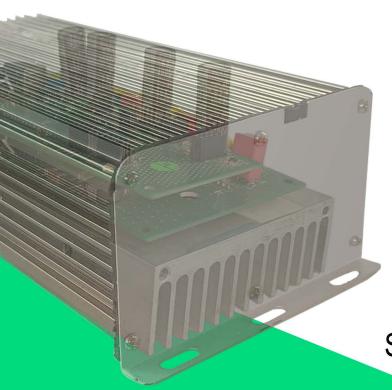
Peak Torque: 22Nm @ 350 RPM

Efficiency: >90% Weight: 5.9 kg

Suitable for High Gradeability







Integrated Controller (MCU + VCU)*

Nominal Power: 1.5 kW

Peak Power: 2.5 kW

Input Voltage: 48 - 60 V

Efficiency: ~95%

Peak current: 50 A DC

Peak current AC: 150 A(rms)

Scalable for different Power Levels

Industry First Features

- Range Estimation incorporating Indian conditions
- Improved multi-featured Driver Information System
- Regenerative and Mechanical braking for enhancing range and safety
- Intelligent fault sensing and reporting for the safety of driver and passengers

* MCU : Motor Control Unit

VCU: Vehicle Control Unit

ICAT Certifications under progress (AIS 041, AIS 004:Part3, IP67)

Contact:

sengupta.s@atdc.iitkgp.ac.in ddebnath@ee.iitkgp.ac.in