## TECHNICAL BROCHURE

3P+D

Built to power E-Autos of India

#### Typical Vehicle Specs

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•	Vehicle Kerb Weight	295 Kg
•	Gross Vehicle Weight	640 Kg
•	Fixed Gear Ratio	8.8:1
•	Top Speed	45 Km/h
•	Wheel Size	16" dia

Seating Capacity

### **Product Description**

High Efficiency Traction motor which is tailored for comfort riding

28 January 2021



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### **SPECIFICATIONS**

# 48 V Electric Drive System



Motor type PMSM
Rated Power 5kW
Rated Torque 14Nm

Rated Speed 3500RPM

Peak mode 21Nm@1500RPM

Motor Efficiency ~92%
Torque Ripple <10%

Motor Size(LXBXH) 220X165X170 mm

Motor Weight 8.3 Kg

IP Grade IP67

Insulation class F class

Delta T 83 deg-C

Cooling Tail-mounted fan

Controller type FOC Sinusoidal output

Operating Range 40-60 V DC

Nominal Voltage 48V
Power Nominal 5kW
Peak Power 8KW

Continuous Current AC 140Arms
Peak Current AC 210Arms
Controller Efficiency 98%

Protection OC,OV,UV & Temp

Position Feedback Hall Sensor

Diagnostic Channel CAN

Controller Dimensions(LXBXH) 250X183X109mm

Controller Weight 2.5kg
IP Grade IP67

Max. operating Ambient Temp 50 deg-C



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