



ASHOK LEYLAND
Koi Manzil Door Nahin

BEV

Battery Electric Vehicle



HINDUJA GROUP

INTRODUCING BOSS BEV

At Ashok Leyland, we aim to build a world that is not just modern but also sustainable.

Here's introducing the future of mobility - the BOSS Battery Electric Vehicle, for a green, sustainable world full of opportunities.

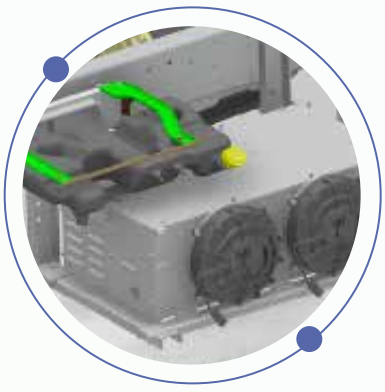
Powered by revolutionary NMC-type batteries, this vehicle delivers consistent and durable performance with zero tailpipe emissions. Be it the goal of a greener planet or a prosperous future, with the new BOSS Battery Electric Vehicle, Koi Manzil Door Nahin!

KEY AGGREGATES



Electric Motor

- Permanent Magnet Synchronous (PMS) motor
- Input voltage: 500 V - 750 V
- Max. Mechanical Output: 235 kW/ 3100 Nm
- Cont. Mechanical Output: 140 kW/ 1065 Nm



Battery Cooling System

- 8 kW Chassis mounted chiller with 11L DAT



High Voltage Battery

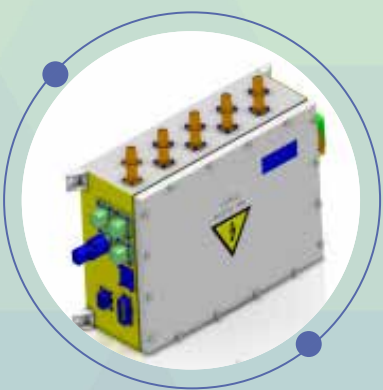
- Nominal Voltage: 650 V
- Energy Capacity: 282 kW
- Battery Chemistry: Li-NMC



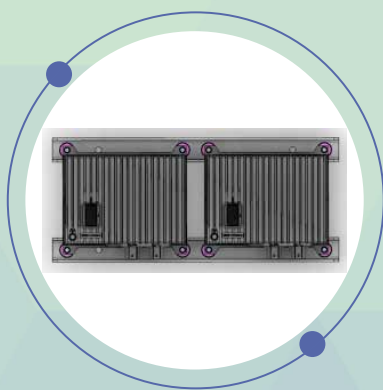
Power Electronics Cooling System

- Radiator with 2 e-fan, 7L DAT

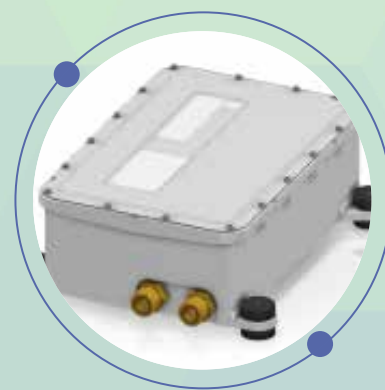
Power Electronics



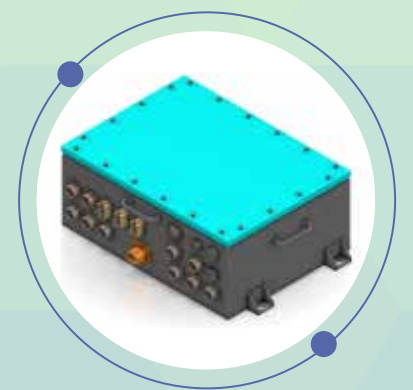
Power distribution
box



Inverter



Motor control
unit

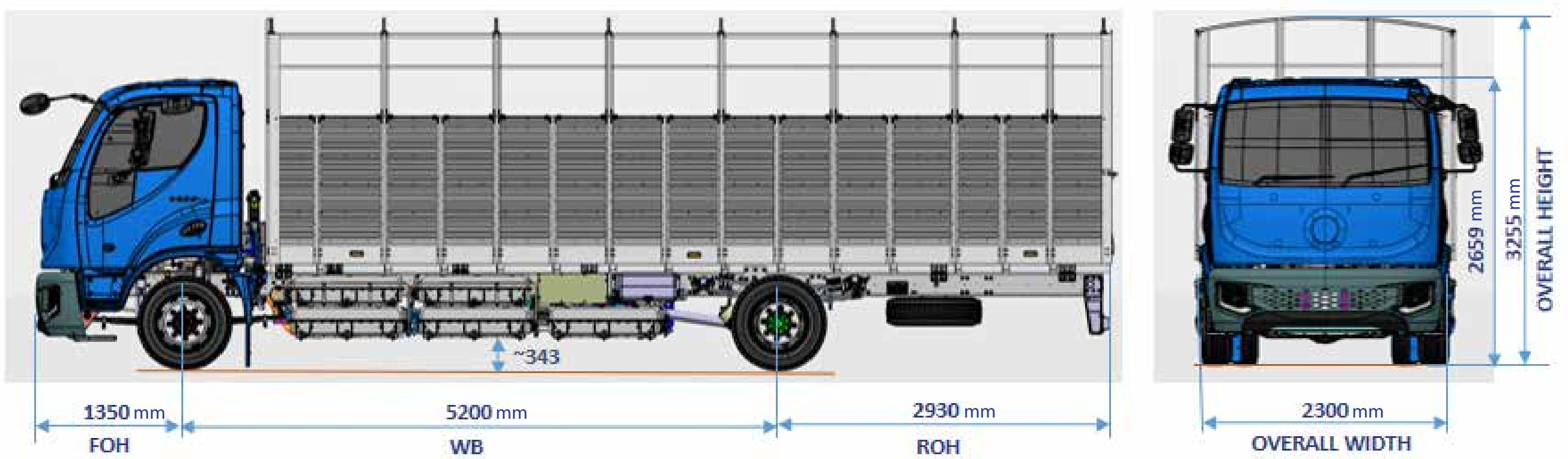


DC-DC converter

FEATURES

- Stylish and sturdy aluminium load body
- Flybrid energy saver flywheel for extended battery life
- A range of 300 km-350 km in a single charge, based on the terrain and driving conditions
- Higher initial torque
- Superior energy efficiency
- No noise and zero exhaust pollution

SCHEMATIC LAYOUT



BOSS BEV

TECHNICAL SPECIFICATIONS

GVW	11990 kg
Max power	140 kW
Max torque	1065 Nm
EV motor	Permanent Magnet Synchronous Motor
High voltage battery	Lithium-Ion NMC battery, 284 kWh
Low voltage battery	24 V - 75 Ah battery - for LV electrical system
Battery cooling	Cooling system fully integrated with battery pack. 8 kW chassis mounted chiller, 11 L DAT
Front axle	Forged I section – Reverse Elliot type
Rear axle	Fully floating, single reduction hypoid axle
Front suspension	Parabolic leaf springs, shock absorbers with ARB
Rear suspension	Semi elliptical, multileaf with helper spring
Chassis frame	Bolted construction with constant width over chassis
Brakes	Full air dual line brakes - Non-ABS
Tyres	Low resistance tubeless tyres 245/ 70R19.5
Cabin	BOSS Day Cab - Hydraulic tiltable cab with coil springs and damper at the rear
Max speed	80 kmph
Vehicle range	~300-350 km
Overall length	9480 mm
Wheelbase	5200 mm
Turning circle diameter	18100 mm
Load body	High side deck, aluminum load body
Dimensions (Load Body)	L - 7317 mm W - 2210 mm H - 1110 mm



ASHOK LEYLAND

Koi Manzil Door Nahin

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