



WEBINAR NORMAL BAHARU BANDAR RENDAH KARBON 6.0

PRESENTED BY ADVANRAIL SDN BHD



PART 01

INTRODUCTION



ABOUT US

Established in 2015, AdvanRail is the top local agent that provides high quality products from China manufacturer. From train parts supplier, AdvanRail spread it wings and embarked onto electric vehicles that maximizes its potential as a local agent to Malaysia.

- Chassis importer and AP holder of E-bus.
- Exclusive agent and consultant of rolling stocks.
- One-stop supply and service center of key rolling stocks subsystems & components.
- MRO & localization of railway components.



ABOUT US

- The company's purpose is to enhance the railway industry and public transportation in Malaysia.
- AdvanRail's Corporate vision is to be the rail solution provider by providing a network of suppliers for our customers to be a one-stop center.
- AdvanRail's Corporate mission is to ensure that our customers have choices, delivery on time and work with financial stable suppliers

OUR SUPPLIER CRRC

CRRC is the world's largest supplier of rail transit equipment with the most complete product lines and leading technologies. Its main businesses cover the R&D, design, manufacture, repair, sale, lease and technical services for rolling stock, urban rail transit vehicles, engineering machinery, all types of electrical equipment and environmental protection equipment, consulting services, industrial investment and management, asset management, import and export.

By 2018



385th

The 385th of the top
Forbes 500 companies



104

Products exported to
104 countries and
regions in 6 continents



7.337

Brand value:
USD 7.337 billion

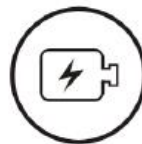


30.6

Total Revenue 30.6 billion USD
Net profit: 1.59 billion USD



CRRC EV integrates CRRC's resources and applies the world's leading rail transit electric drive technology to new energy vehicles. It has built a new energy vehicle industry chain from IGBT components to drive motors, from power system platforms to complete vehicle manufacturing.



120000 set
of drivetrain sold



36000 set
vehicle product sold



6800 set
vehicle sold in 2018



750 million
sales revenue 2018



PART 02

PRODUCT

10.6-METER ELECTRIC BUS



Type	Dimensions	Charging System	Passenger capacity	Drivetrain	Battery	Range
Slow Charging	10.6 Meter	Plug-in	58-83/ 10-31	CRRC	281.9kWh	220/330 Km
Slow Charging	10.6 Meter	Plug-in	58-83/ 10-31	CRRC	229.1 kWh	180/270 Km
Fast Charging	10.6 Meter	Plug-in	58-83/ 10-31	CRRC	201.39kWh	160/240 Km

Passenger capacity varies according to law & regulations

**Power
Grid**



**Convert
Cabinet**



**Charging
Device**



**Charging
Depot**



CHARGING FACILITIES



PART 03

R.A.M.S

RELIABILITY



Electric vehicle has long driving range, and meets various extreme operating conditions such as high/low temperature, high humidity and high altitude, and has the availability compared to conventional buses

AVAILABILITY

24/7 Uninterrupted operation

250km Daily operation mileage



MAINTAINABILITY



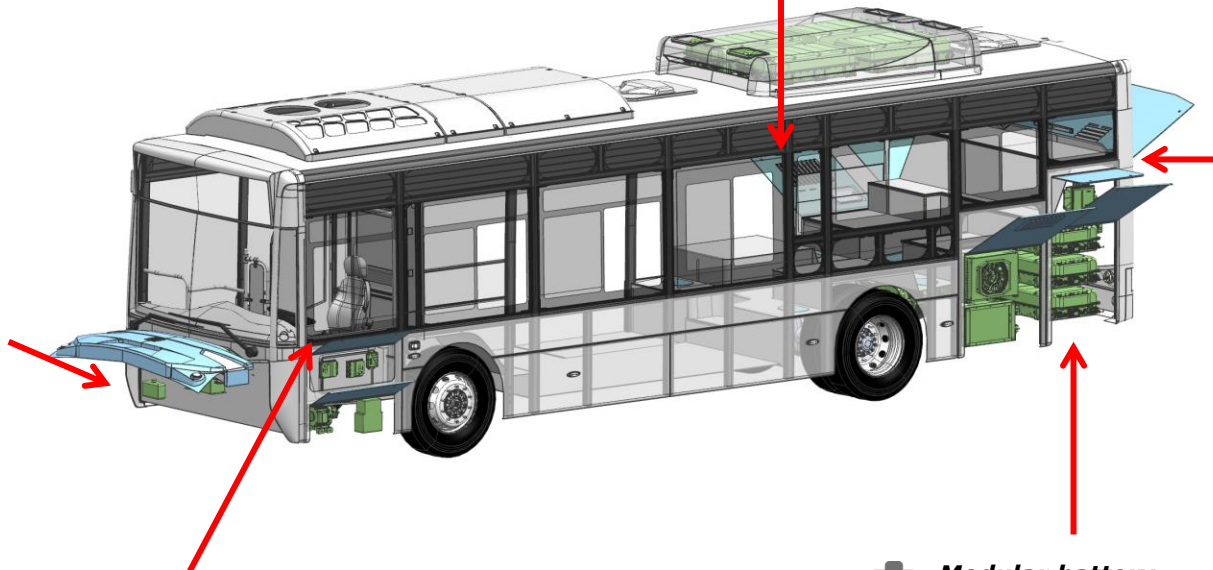
Aluminum alloy body, corrosion resistant



**Centralized placement
of equipment for easy
disassembly and repair**



**Large front face
maintenance space
Easy maintenance &
overhauling**



5G system.

Intelligent fault diagnosis,



Modular battery

Real-time monitoring

SAFETY

STRUCTURAL SAFETY



*CAE analysis technology
Monocoque technology
High strength carbody
materials*

HIGH VOLTAGE SAFETY



*Whole vehicle layout
insulation treatment
Highly integrated electric
drive system*

WADING SAFETY



*Normal operation on flooded
road
IP68 protection level*

ACTIVE SAFETY



*Cloud 5G
AEBS emergency braking system
Lane departure warning system
Forward collision avoidance
warning system*

PART 04

BENEFITS OF ELECTRIC VEHICLES

BENEFITS OF ELECTRIC VEHICLE

- No pollution from a non-combustion motor compare to internal combustion engine.
- Low noise pollution from a cleaner vehicle
- Require low maintenance
- Reduces wastes (No engine oil to be replace)
- Reduces costs through efficiencies
- Improves the customer experiences
- Provide cleaner air and environment for future generation
- Reduce the usage of fossil oil, resulting the government may reduce the fossil oil import.



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