



VOLGREN

A Marcopolo Company

VOLGREN OPTIMUS E-BUS

AUSTRALIA'S MOST
POPULAR CITY BUS BODY
WITH ZERO EMISSIONS

A LOCALLY BUILT BUS BODY UNLIKE ANY OTHER

The result of literally thousands of hours of research and on-route testing, Volgren's new E-Bus is one of the lightest zero-emission bus bodies in its class.*

Combining everything operators know and trust in the company's flagship Optimus route bus, the lightweight design delivers longer range, less downtime for charging and Volgren's unmatched total cost of ownership.

More space, greater capacity and comfort, the E-bus is Volgren's safest bus yet, complying with the highest levels of safety and flammability standards for buses in Australia.



250+ KM RANGE*

PANEL 3 TFNSW
COMPLIANT (OPTIONAL)

WHEELCHAIR ACCESSIBLE

USB CHARGE POINTS

ELECTRIC SALOON
DOORS FOR EASY
BOARDING AND EXIT,
AND TS155 DOOR
COMPLIANCE SAFETY
SYSTEM

3.5 HOUR RECHARGE
TIME ^

CCS2DC CHARGING
SYSTEM

AUSTRALIA'S LARGEST
AFTER SALES SUPPORT
NETWORK

15 YEARS WARRANTY
ON THE BODY
STRUCTURE

DRIVER COMFORT

37-42 SEATING
CAPACITY

*Dependent on climate conditions and operational conditions such as the route and behavior of the driver.
^Dependent on charging equipment.

INTRODUCING THE VOLGREN E-BUS BODY

Tested by engineers and operators, the Optimus E-Bus is being enjoyed by passengers and drivers on the streets of Sydney, Melbourne, Brisbane and Perth.

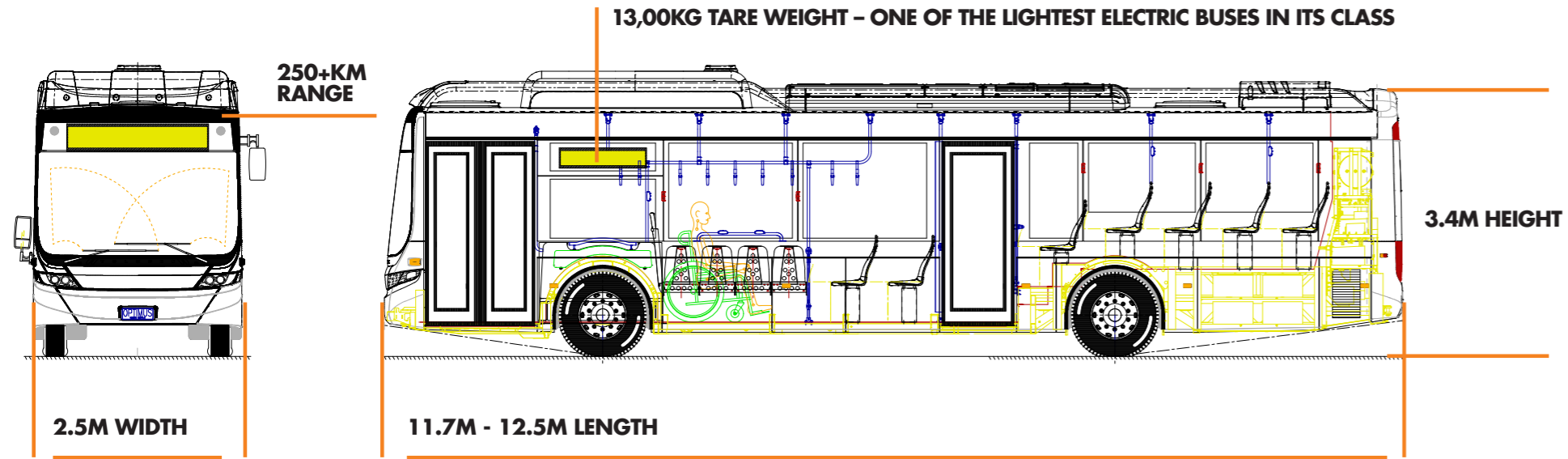
Functional and easy to drive, passengers will enjoy the silent comfort and spacious layout, USB charge points and electric salon doors for easy boarding and exit.

Compliant with all ADR standards, Volgren's E-Bus Body is our safest bus yet, complying with the highest levels of safety and flammability standards for buses in Australia.



ZERO EMISSION TRIAL SUCCESS

- Our first E-Bus prototype built on a BYD chassis delivered a saving of 61.6 tonnes of carbon dioxide emissions to the Victorian Government in its first 300 days of service compared with a standard diesel bus.
- The bus broke a project record, travelling nearly one thousand kilometres on just two charges, demonstrating the efficiency and range of the 324 kWh of Lithium Phosphate batteries.



KEY SPECIFICATIONS

Chassis	Length	Height	Width	Seats
BYD D9RA	11.7m - 12.5m	3.4m	2.5m	37 - 42 seat

BYD D9RA ELECTRIC BUS CHASSIS

16 x BYD Lithium Iron Phosphate (LFP) Batteries – 2.7 tonnes total weight	348 kWh Battery Capacity
In-wheel Permanent Magnet AC Synchronous Motor (x2)	Regenerative Braking System
300KW (2 X 150kW) Max Power	Electric Power Steering
1100Nm (2 x 550Nm) Max Torque, 90kmh Top Speed	Electric Air Compressor
ZF Front Axle, BYD In-wheel Drive Rear Axle	CCS2DC Charging system, 3.5hr Charging Time*

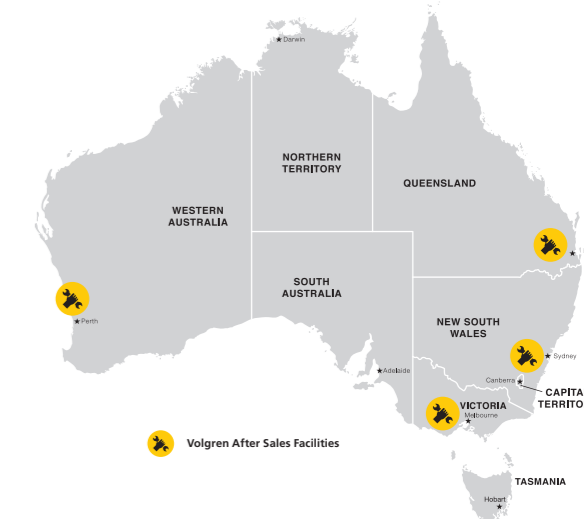
*Battery age, ambient temperature and charging infrastructure capacity may vary charging times.



NEW TECHNOLOGY BUT FAMILIAR VOLGREN SUPPORT

We understand the transition to zero emissions technology for operators won't always be straight forward. But when we talk about the latest technology, we are not talking about unproven vehicles – our solution is tried and tested.

Better still, our E-Buses are backed by the largest after sales support network in the country. From our state-of-the-art facilities in Melbourne, Brisbane, Perth and Sydney and our mobile service vehicles - we offer 24-hour support to keep your bus on the road and earning its keep. We're fully stocked with spares and can carry out all accident repairs, from minor jobs to major overhauls, so you don't have to.



CO-BOLT: ALUMINIUM MANUFACTURING OPERATORS KNOW AND TRUST

The Co-Bolt® aluminium system is that rare example of technology with the power to transform an industry. It allows Volgren to create a vehicle that is lighter, stronger and safer – a vehicle with a longer working life, shorter downtime and less need for repair.

Since 1977, we've used this Swiss technology to manufacture Volgren bus bodies. It's one of the fundamental components of our manufacturing success.

The CO-BOLT aluminium extrusion body technique allows us to build our vehicle bodies using a system of bolted gusseted joints. Because all vehicles are exposed to continuous vibration and stresses due to dynamic loading, welded joints can fracture and fail. Our system requires no welding, and results in a much longer joint life.

**A LONG,
PROBLEM-FREE
SERVICE LIFE**

**RAPID AND
SIMPLE REPAIRS**

**A HIGH LOADING
CAPACITY THANKS
TO THE LIGHT
CONSTRUCTION**



**CAPACITY TO
CARRY BATTERIES
AND CHARGING
TECHNOLOGY ON
VEHICLE ROOF**

Meaning more space for
passengers

**EXACTLY FITTING
REPLACEMENT
PARTS**

**OPTIMAL
ANTICORROSION
PROPERTIES**

**USE OF
RECYCLABLE
ALUMINIUM**

LOCAL CONTENT, ASSEMBLY AND AUSTRALIAN JOBS

Many of the zero-emission players active in the market are importing complete solutions from overseas. Volgren is a strong advocate of local content and local jobs; we build electric bus bodies in Australia using over 100 Australian suppliers and are incredibly proud to retain almost 90 percent proportion of local production.

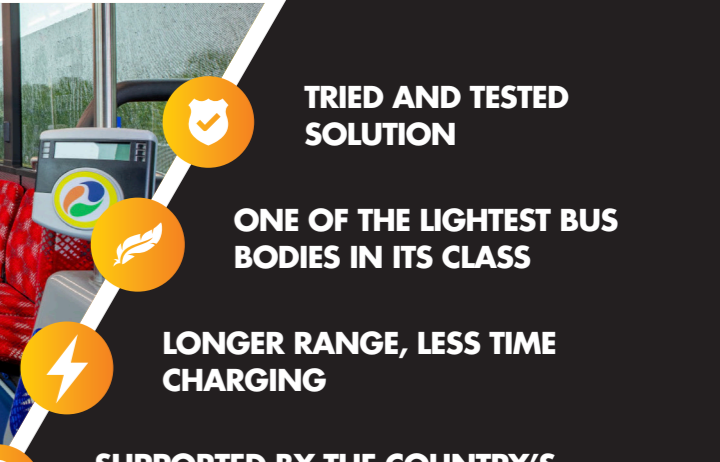
Starting with the aluminium that makes our bodies strong and lightweight, to the handrails you grip, the vinyl flooring you stand on and the seats you can relax in; our E-Bus bodies are unashamedly local. For operators that means you can expect greater levels of quality, service and flexibility.

When you buy Volgren you're investing in Australia. You're saying yes to local jobs.



DRIVER AND BUS BODY TRAINING

The move to electric vehicles involves a steep learning curve for those unfamiliar with the technology. With this in mind, Volgren can provide full driver and bus body training around safe operation of the e-bus plus awareness sessions on responding to an incident involving an e-bus through local emergency services.



TRIED AND TESTED SOLUTION

ONE OF THE LIGHTEST BUS BODIES IN ITS CLASS

LONGER RANGE, LESS TIME CHARGING

SUPPORTED BY THE COUNTRY'S LARGEST AFTER SALES

PROVEN TECHNOLOGY AND CHASSIS PARTNERS

LOWEST TOTAL COST OF OWNERSHIP

LOCAL CONTENT AND ASSEMBLY, SUPPORTING LOCAL JOBS

WHY PARTNER WITH US

The Volgren bodied E-Bus is a tried and tested solution, giving operators peace of mind when transitioning to zero emission. Designed, manufactured and built locally, our E-Bus vehicles are customisable to meet specific needs and backed by Australia's largest after sales network.

VOLGREN

MOVING PEOPLE, MOVING STORIES

VOLGREN.COM.AU

For more information about our Optimus E-Bus, please call our sales team on (03) 9791 4255 or email info@volgren.com.au