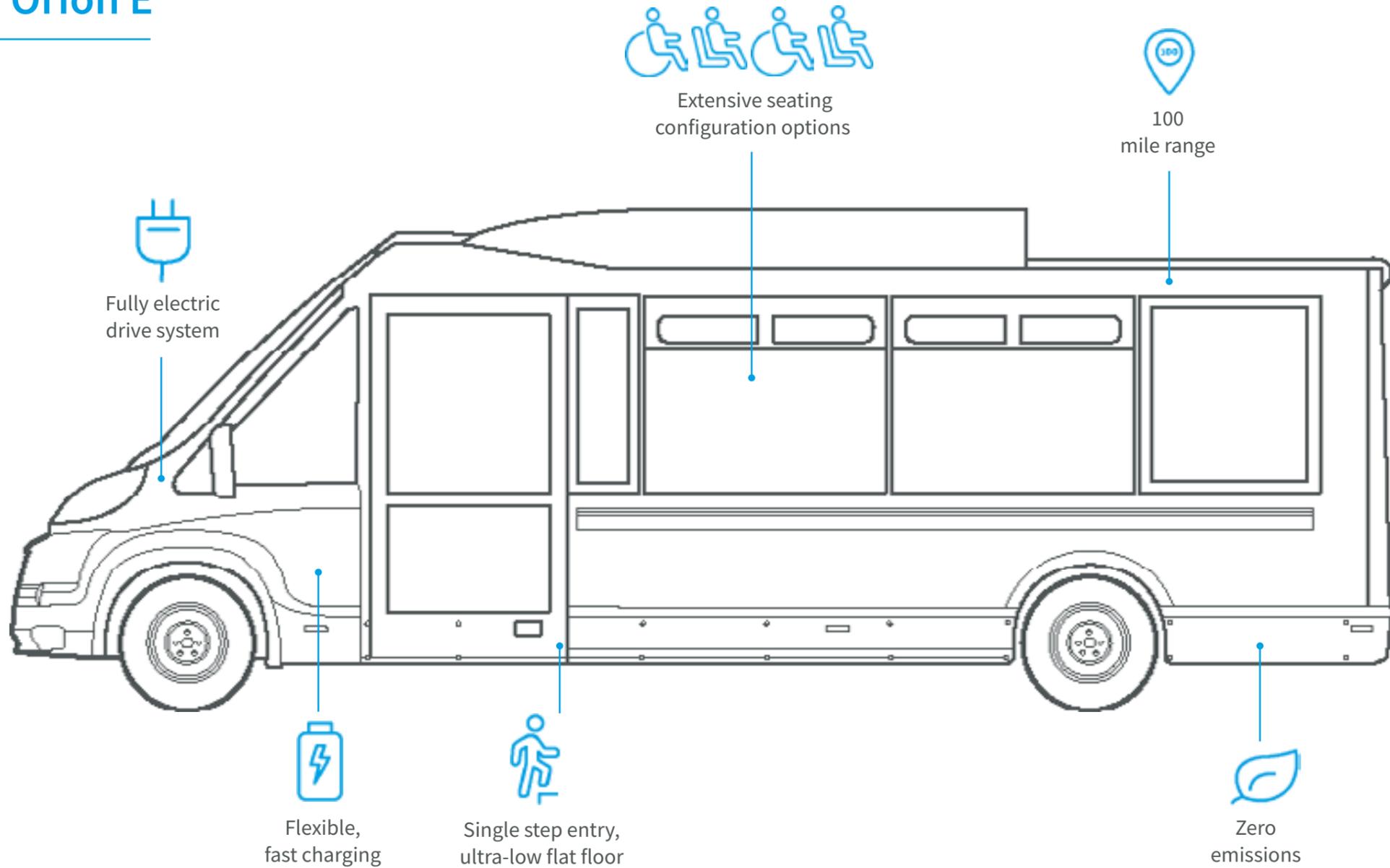




# ZERO EMISSION BUS

The UK's first fully electric, fully low floor bus

# Orion E



The new Orion E from Mellor is the all-electric low floor bus you've been waiting for.

The low floor, zero emission all-electric drive system and class leading low step entry make the Orion E an incredibly accessible, versatile bus for today's passengers and highways alike.

The Orion E combines the **latest electric technology** with **years of traditional bus building expertise**.

The latest model has **improved battery performance, drivetrains and charging system**, leading the way in zero emissions.





With a focus on **quality and longevity**, the Orion E is a small bus built to big bus standards including a full eight year accelerated durability test at Millbrook Proving Ground.

Our approach to building buses with a long service life leads to **exceptional total cost of ownership figures** alongside minimal in-service maintenance requirements.

Offering flexible configuration options with rear doors or a solid back, fixed or removable seats plus a range of additional options, the Orion E suits your specific requirements every time.



**The ORION E – the future of flexible passenger transport.**

► To book a demonstration, call **+44 (0)1706 860610** today.

# Specification

The Orion E is Europe's most advanced all-electric low floor small bus. The latest in electric motor technology coupled with revolutionary drive train components provides seamless acceleration with torque and power in abundance.

Environmentally friendly with zero emissions

Full length flat floor and seating for up to 16 passengers, plus driver

4.25 hour charging system

Unique driver interface technology

Technologically advanced drive train with low maintenance costs and widely available parts

Single step entrance ramp

Type Approved

Super-efficient LiFe PO4 batteries

Range of 100 miles

Light, airy and modern passenger area

Best in class floor height allowing easy wheelchair access

Driver friendly, with entrance door adjacent to driver area

Wide range of available options, including destination displays, tip/fold seats and storage solutions

Wide saloon to allow 1+1 wheelchair positions

Full durability tested at Millbrook Proving Ground

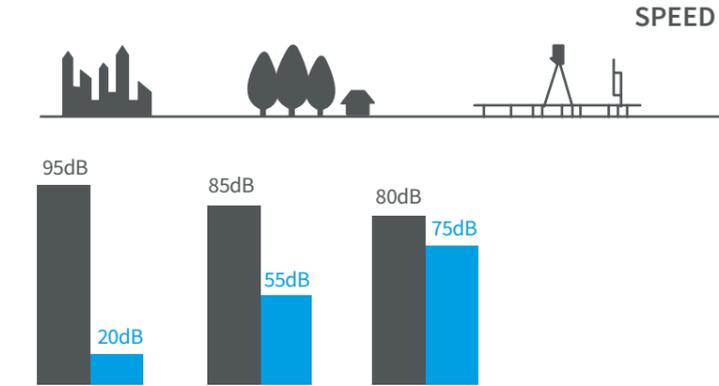
Installed with battery heat technology to ensure optimal charging/discharging

# Benefits of an Electric Bus



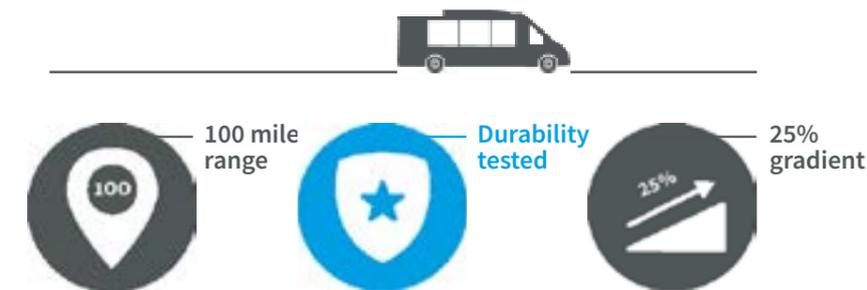
## Noise

The electric drivetrain is ultra-quiet at low running speeds.



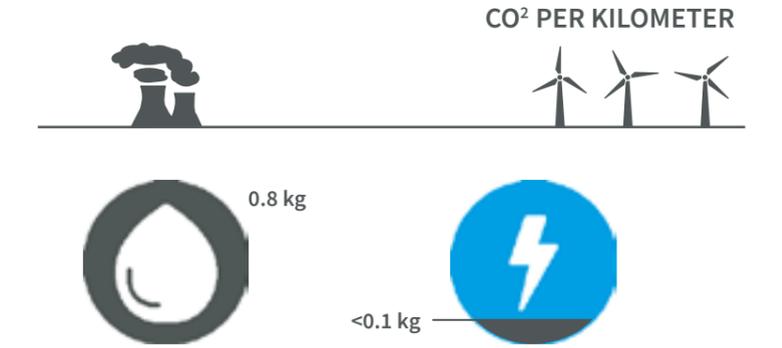
## Operator Benefits

Long range capacity, highly durable and suited to urban and rural environments.



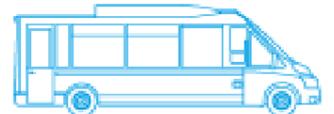
## Emission

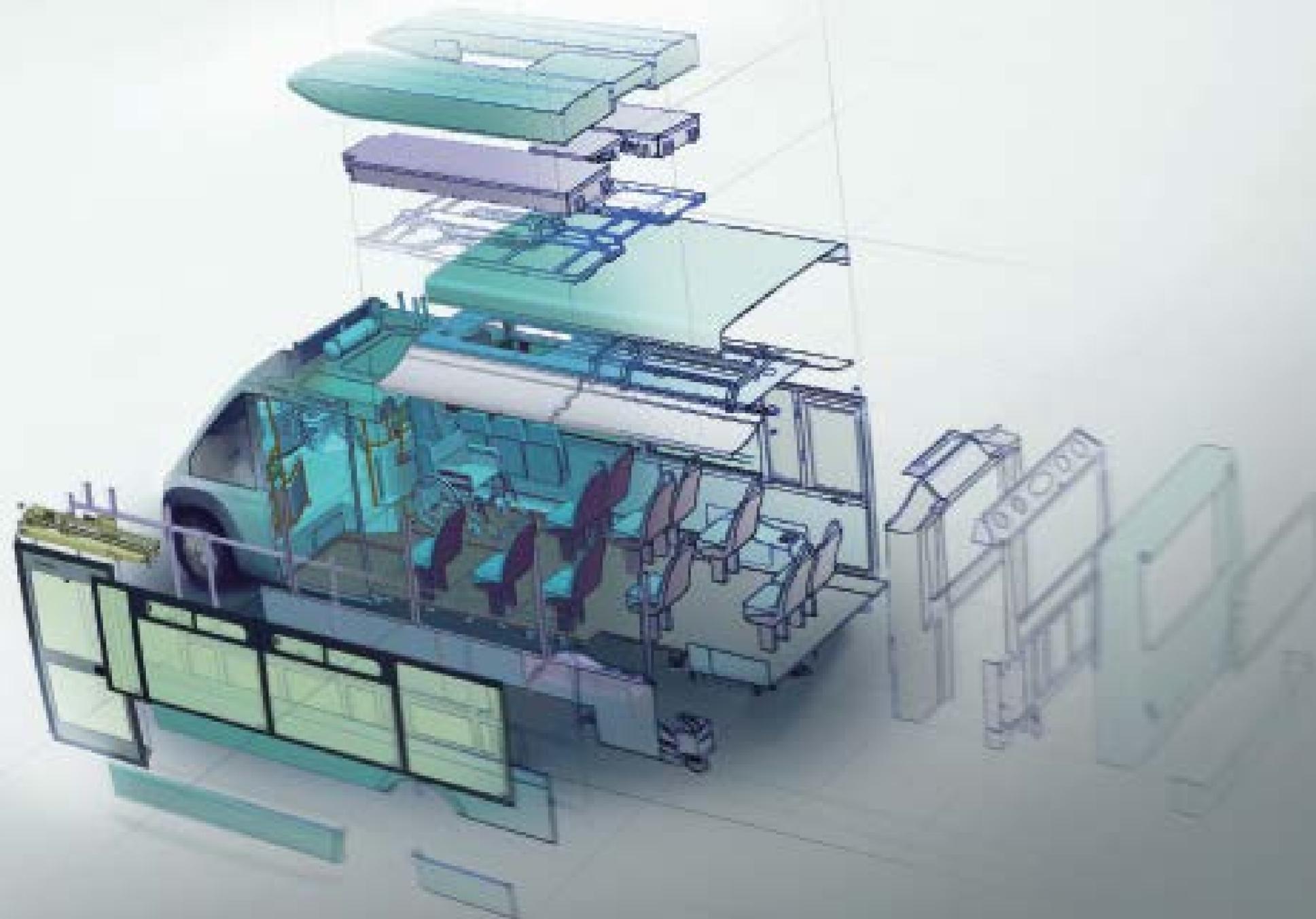
Clean, quiet operation with zero emissions or particulates.



## Costs

Lower operational costs compared to traditional diesel bus.





## Technical Specification

<b>Battery</b>	2 strings 92kWh @ 2524Ah
<b>Configuration</b>	Front wheel drive via electric motor and reduction gear
<b>Range</b>	100 miles
<b>Torque</b>	5000Nm peak /2400Nm nom
<b>Charging device</b>	22kW = 4.25 hours
<b>Suspension</b>	Front: Coil spring Rear: Air
<b>Width</b>	2200mm
<b>Length</b>	7479mm
<b>Height</b>	2700mm

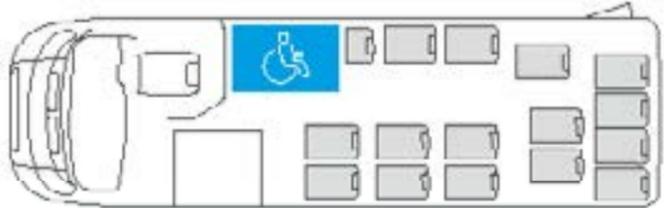
<b>Transmission</b>	E-Gear Ratio 7.3:1
<b>System voltage</b>	400 V DC nom
<b>Motor power</b>	96 kw
<b>Motor power</b>	90kmph/56mph
<b>Max incline take off</b>	25 degrees
<b>Charging cycle</b>	4.25 hours
<b>Charging device power supply</b>	400V AC 32 Amp
<b>GVW</b>	5000kgs
<b>Wheelbase</b>	4890mm



# Typical Interior Layouts

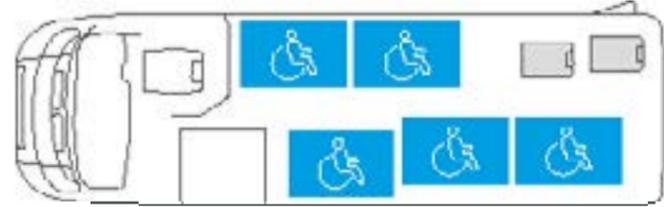
Configuration 1

Passenger Total	Max. Seated	Max. Wheelchairs
16	15	1



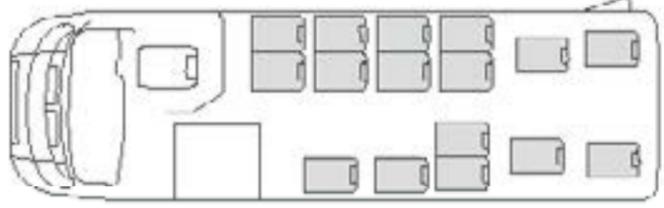
Configuration 3

Passenger Total	Max. Seated	Max. Wheelchairs
7	2	5



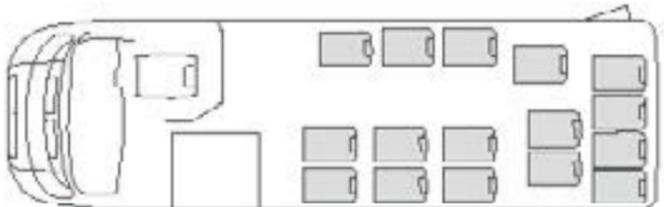
Configuration 2

Passenger Total	Max. Seated	Max. Wheelchairs
16	16	0



Configuration 4

Passenger Total	Max. Seated	Max. Wheelchairs
16	16	0





- ▶ The future of flexible passenger transport.

Every vehicle we manufacture is built to deliver excellence in passenger and operator experience. Above all else, our innovative products provide efficient, accessible and sustainable transport solutions.

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