

# Solo

## Zero Emission Single Deck Electric Bus

Specification

[switchmobility.tech](https://switchmobility.tech)



SWITCH

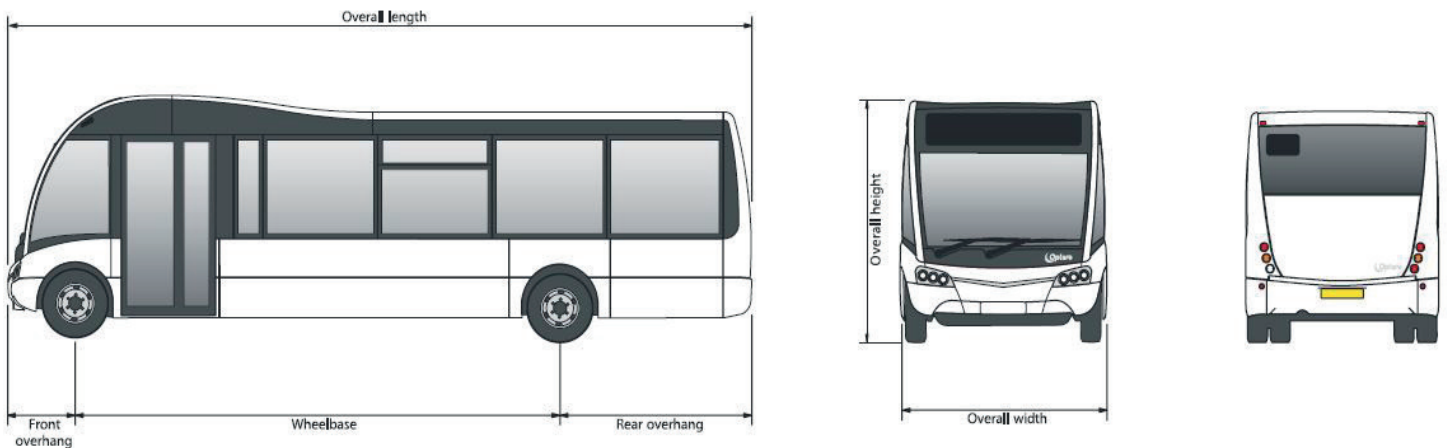
Colour coordinated interior trim systems provide a comfortable passenger environment which is tough, durable and easy to clean. Curved handrails from seat back to roof soften the styling sill further and indirect LED lighting in the contoured ceiling panels and large curved side windows offer a welcoming feel to encourage increased passenger numbers. LED exterior lighting compliments the distinctive design.

Body length options

Overall length (mm)	9,260	9,960
Overall width (mm)	2,500	2,500
Overall height (mm)	2,885*	2,885*
Wheelbase (mm)	5,875	6,575
Front overhang (mm)	815	815
Rear overhang (mm)	2,570	2,570
Gross vehicle weight design/plated (kg)	11,300/ 10,780**	11,300/ 10,780**
Front axle weight design/plated (kg)	3,800/ 3,740	3,800/ 3,740
Rear axle weight design/plated (kg)	7,500/ 7,040	7,500/ 7,040

\* Dependent on tyre size

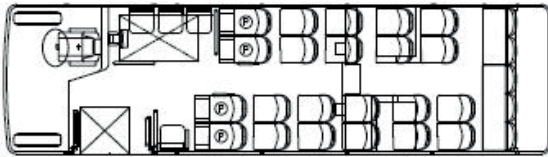
\*\* Assumes 10% tyre bonus with 215/75R x 17.5 tyres, which limits the vehicle to 50mph



Overall length (mm)	9260	9960
Seats (maximum)	32	36
Total (maximum)	58*	58*

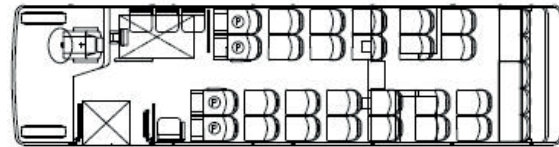
\*Capacities are subject to overall vehicle weight, which may be affected by optional equipment specified

### Seating plans



#### 9.2m Standard

Typical seating layout for 9260mm Standard



#### 9.9m Standard

Typical seating layout for 9960mm Standard

The battery electric Solo seats up to 36 and has exceptional standing capacity able to carry up to 58 passengers with a versatile range of layout options including, urban, interurban, School bus and airport applications. The low entry floor combined with the front axle forward of the front door allows for easy access to a fully flat lower saloon area, meaning there is greater flexibility for vehicle layouts.

## Driveline

### Energy Storage System

Battery pack size 138 kWh

Motor: Power 150 kW **Max Torque 700Nm TBC**

Driveline: conventional beam axle, permanent magnetic motors and reduction gear box

Forecast range on a single charge, dependent on duty cycle and equipment options: 95 miles+(155Km+) in winter with electric heating. 110 miles maximum.

22kW integrated on-board charger connects to standard commercial three phase AC supply. Charge time approx 5 hours from zero to full.

50kW remote DC fast charge capability, charge time approx 3 hours.

## General specification

### Front Suspension

2 bag air suspension with leading taper leaf springs and Panhard rod.

### Rear Suspension

4 bag air suspension on parallel linkage.

### Steering

ZF 8090 steering gear with integral power assistance. Steering column adjustable for rake and reach.

### Servicability

All power packs are fitted to a demountable frame. Services fitted with "no-loss" couplings for rapid removal.

### Brake System

Service Wabco PAN17 dual circuit air disc brakes with non-asbestos linings and Anti-lock Braking System.

Parking brake air released, spring actuated acting on rear wheels.

Air dryer with optional heated element.

### Drive System Cooling

Cooling system fully integrated with battery pack.

### Electrical Systems

Centralised, fully multiplexed electrical system for quick, easy fault finding through diagnostics facility.

Body batteries 2 x 24 volt 105 amp hour, maintenance free.

### Heating Options

Electric heating system with vehicle pre-heat as standard.

### Structure

All welded heavy-duty box section integral construction using a combination of stainless and high-grade carbon steel to effect a long life.

Anti-rust protection system applied to exposed structural components.

### Exterior

Combination of GFRP and aluminium modular exterior panels for low cost repair or replacement.

Modular pressed alloy side panels locked into waist-rail section and retained by screw fasteners for ease of replacement.

One piece gasket glazed windscreen with bonded quarter windows. Driver's signalling window with sliding section.

Tinted, bonded, single glazed saloon side windows. Optional double glazing.

### Speed Specifications

Limited to 59 mph as standard. Other speeds optional.

### Interior

Moquette trimmed individual passenger seats with tubular steel frames and ABS backs.

Wheelchair bay incorporating backrest and gangway stanchion.

Manual fold out wheelchair ramp.

Fully adjustable driver's air suspension seat.

Heavy duty, sealed, slip-resistant floor covering system and flush fitting step nosings with yellow inserts, colour contrasting with floor covering.

35mm diameter smooth tube, anti-slip handrails with colour co-ordinated finish. Vacuum formed ABS profiles at windows and cove panels with centre roof in ABS finish for easy cleaning.

### Equipment

Wireless palm operated, contrasting bell pushes together with "stopping" sign.

Flush fitting, glider entrance door with full-length glazing, electropneumatic operated with exterior and interior safety controls.

Moulded driver's compartment for durability and ease of cleaning.

LED destination and route number equipment fitted to front, side and rear.

LED rear lamps.

Twin halogen, high intensity front driving lamps.

LED side marker lamps.

Reversing horn with night-time override facility.

Real time, web based diagnostics and vehicle management telematics system included as standard.

### Demister And Ventilation

Low emission combustion heater with thermostatically controlled blown, recirculating warm air heating system for passenger comfort.

Three speed high-powered windscreen demister with driver's compartment heating facility.

Hopper windows for passenger area ventilation. Quantity varies according to length of vehicle.

Optional air conditioning.

### Systems

Electrically powered horizontal parking windscreen wipers with 2 speeds, plus intermittent.

Modular LED interior saloon lighting running continuously from front to rear on both sides for even light distribution. Each side separately switched providing dual level facility.

### Instrument Panel

EcoDrive™ low maintenance, easy clean driver's instrument panel with TFT screen providing direct feedback to the driver; monitoring acceleration, deceleration, cornering, and driver's skill score.

Gauges: Speedometer, economy dial, front and rear air pressure. TFT display shows engine coolant temperature and battery charge level.

Easy clean, soft touch, tactile switch membrane for vehicle systems.

Audible warnings for low air pressure, DC-DC converter failure emergency door open.

### Premium Customer Service

We'll always be there for you. Our regionally based Customer Service Managers are the first point of call for everything you need to keep your vehicles on the road. Your dedicated Customer Service Manager will be with you every step of the way from delivery of your new vehicles and training through to supporting ongoing diagnostics and maintenance.

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### Service Support

Our key focus is to provide you with a rapid response to service and maintenance issues throughout the life of your vehicle.

Our call centre provides a direct link to our mobile field service technicians, conveniently located across the country and ready to visit your premises to provide a range of practical support including vehicle system diagnostics and repair.

Our mobile field service technicians are backed up by fully equipped regional service centres to provide all the repairs, servicing, maintenance and refurbishment you require.

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### Parts

You can order from our extensive inventory of over 25,000 OEM parts through our online parts information and order service.

The multi-platform online service can be searched by VIN (displaying parts specifically for the VIN number selected), part number or description.

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### Repair and Maintenance Contracts

Our scheduled inspection, repair and maintenance programme is designed to ensure complete peace of mind- ensuring you have a dependable fleet, compliant with operator licence requirements.

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**Call: +44 (0) 871 230 1324**

For all the help you need to get your vehicle back on the road as quickly as possible.

**You can use this number to arrange technical assistance or to arrange comprehensive product training.**

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### Switch Mobility Ltd.

Registered Address: Switch Mobility Ltd.  
Hurricane Way South, Sherburn-in-Elmet Leeds,  
United Kingdom, LS25 6PT  
A Hinduja Group Company  
switchmobility.tech