**Model**
Volvo 7900 2-axle low floor single deck electric hybrid citybus

**Body specification**

**Hybrid driveline**
Volvo parallel hybrid system. Traction power supplied by either the diesel engine or electric motor working independently or together. Power for the electric motor power is provided by the 600 Volt Energy Storage System. Driveline uses stop/start technology.

**Engine**
Volvo parallel hybrid system with the Volvo D5K, 5 litre Euro 6 engine rated at 240hp with 150kw electric motor.

**Electric motor**
150kW / 1200Nm

**Transmission**
Volvo 12 speed I-shift automatic transmission.

**Energy storage system**
High capacity 19kWh Lithium-Ion battery, which is water cooled using an active electronic system. Ramp heating with 400 VAC. Battery energy capacity is optimised according to conditions and energy requirements. This enables fast charging and maintains a high passenger capacity.

**Charging system**
The Volvo conductive opportunity charging system features roof-mounted charging rails centrally mounted above the front axle. Pantograph mounted to a charging station. Fully automatic fast charging sequence.

**Rear axle**
ZF AV132. Portal, double reduction axle, with optimised ratio.

**Brakes**
Volvo electronically controlled disc brakes (EBS). Brake Blending function (all). The electric motor functions as a retarder and recovers braking energy.

**Steering**
Hydraulic steering, electrically driven power steering pump.

**Fuel system**
Diesel engine

**Electrical**
I-Start dual battery system which separates batteries into two circuits. Optimised start batteries to increase engine start capability. Optimised consumer batteries for longer lifetime. Automatic shut off of main switch at low voltage level.

**Tyres & Wheels**
7.5 x 22.5" wheels with 275/70R22.5 tyres.