



**ALEXANDER
DENNIS**

Enviro400 SmartHybrid

United Kingdom & Ireland



The **Alexander Dennis Enviro400 SmartHybrid** features smart management of alternator and air compressor, engine stop/start technology and electrically-driven cooling fans, and combines these with a 48V mild hybrid system that recovers kinetic energy during vehicle deceleration, stores it onboard, and uses it to provide a torque assist to the driveline when required during subsequent acceleration.

Supercapacitor energy storage means there is no need for component replacement during the vehicle's normal operating life, and the mild hybrid architecture requires no high voltage training for maintenance staff.

Vehicle type	Two-axle double deck mild hybrid bus
Construction	Welded steel chassis and aluminium body
Dimensions	Choice of 10.5m and 10.9m length / 2.55m width / choice of 4.2m and 4.3m height
Gross plated weight	18000kg
Passenger capacity	Up to 74 (10.5m) or 82 (10.9m) seats
Seats	ADL SmartSeat with or without seatbelts, options of Lazzerini and ISRI/Esteban seats
Accessibility	Wheelchair access with manual ramp at front door or electric ramp at centre door
Glazing	Choice of bonded glazing and Quick Release Glazing (QRG)
Heating and ventilation	Blown-air heating system with forced air ventilation, option of air chill
Engine	Cummins B6.7 (6 cylinder, 6.7 litre, 187kW (250PS), 1000Nm, Euro 6)
Transmission	Voith DIWA with 14kW SmartHybrid electric motor providing torque boost
Energy storage system	Supercapacitor energy storage system
Fuel and AdBlue tanks	200l or 275l aluminium fuel tank and 25l plastic AdBlue tank
Front axle	Dana NDS80LF, drop centre, 55° lock angle
Drive axle	ZF AV133, drop centre
Tyres	275/70R22.5