

Lamis 12t

PRAGUE TROLLEYBUS



80
PASSENGER

35 KM
BATTERY RANGE

12
M

%100
LOW FLOOR

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Lamis 12t

The thirty 12 meter trolleybuses manufactured for Prague, the capital of the Czech Republic, set a new standard for sustainability in urban mobility, featuring whisper-quiet operation, energy efficiency, modern design, and zero-emission performance (offering a cleaner, smarter, and more refined public transport experience- this phrase is optional and only for marketing points).



TECHNICAL SPECIFICATIONS

Catenary Voltage
Operation in Reverse Polarity

600 VDC / 750 VDC (+/- % 30)
Yes

VEHICLE TYPE

Vehicle Category & Class

100% Low Floor, M3 Class I

ELECTRIC MOTOR SYSTEM FEATURES

Nom. Motor Power
Max. Motor Torque
Motor Configuration
Motor Type
Motor Cooling Type
Max. Climbing Slope

160 kW
1800 Nm
Central Motor
Asynchronous Motor
Air-Conditioned Cooling
14%

PERFORMANCE & VEHICLE FEATURES

Maximum Speed
High Voltage Battery Type
High Voltage Battery Capacity
Battery Range (With E-SORT-2)
Battery Range
(With Operating Conditions)
Charging Type

80 km/h
LTO
58 kWh
65 km
35 km

Charging Power

Via the catenary and the
CCS-2 plug-in

75 kW via the Catenary line
(On-Board Charging)
Up to 180 kW via the
CCS-2 plug-in

Charging Features

Fast and Slow Charge

Number of Doors

3 units, double-leaf –
electric and pneumatic

Maximum Seat Capacity

30 Seats

Passenger Capacity

80 Passengers

VEHICLE DIMENSIONS

Vehicle Length
Vehicle Width
Vehicle Height
Max. Allowed Weight

12150 mm
2550 mm
3500 mm
19000 Kg

HEATING AND COOLING (HVAC)

HVAC system (with BTMS) Electric Heating and Cooling

Nominal Cooling Capacity 20 kW
Nominal Heat Pump Capacity 12 kW at 0 °C
20 kW at 15 °C
Battery Cooling Capacity 6 kW
Operation Temperature Range Between -30°C and +50°C
Auxiliary Heater Under-seat Heater (4 x 2 kW)
Preheater Feature 2 x 15 kW
Defroster (Driver Heating) 8,1 kW
Defroster (Driver Cooling) 4 kW

BRAKE SYSTEM-AXLE TYPE-WHEEL

Brake system

WABCO , EBS3
(ABS, ASR, Regenerative Braking)
WABCO, ECAS
(Air Suspension, Kneeling Function)
275 / 70 R22.5
ZF RL 82 EC (Independent)
ZF AV 133 Driven Portal Axle
2

Suspension System

Tire Size
Front Axle
Drive Axle
Number of Axles