

TEMSA TS45E



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TEMSA TECH EV SOLUTIONS

Temsa, one of the leading EV manufacturers is now launching its newest product the TEMSA TS45E for the North American market. The quiet, powerful and modern design of TS45E is reflected in Temsa's experience with electric vehicle technology combined with proven characteristics of the TS45 diesel coach.

As the successor of previous electric vehicles from Temsa's product portfolio in Europe, the proven battery & battery management technology is now available for the United States and Canada.

ENHANCED TS45 WITH ZERO EMISSION

Since the first TS45 launched for North America in 2014, hundreds of buses traveled tens of million miles on U.S. roads. With the win-win approach, Temsa is now offering its flagship product with an enhanced version of both diesel and zero-emission vehicles.

Higher doors, larger windshields and extended side windows are improving the visibility while the digital cluster assists drivers to monitor the performance of all main systems including the energy storage of the coach.

LOWERING YOUR TOTAL COST OF OWNERSHIP

Operating the TS45E will cost less than a regular diesel coach both by powering the coach and reducing the maintenance intervals.

Most electric-powered components are located in the same area with easy access for service technicians. Such as the electric motor, A/C compressor, preheater, air compressor, cooling units, steering pump and low voltage generators which are now powered by electricity. This is basic math; electric vehicles save money during operation and maintenance during the life cycle of the coach.





CONVENIENT FOR MULTI-PURPOSE OPERATIONS

The myth that batteries use all available luggage space in electric vehicles isn't true with the TS45E! While the TS45E offers spacious and uninterrupted luggage room to accommodate passenger belongings underneath the passenger compartment, the enlarged overhead parcel racks offer more room for a variety of passengers items inside the coach.



ONE PEDAL DRIVE

With the one-pedal drive system on the TS45E, it allows you to control the vehicle speed with just the throttle pedal. When the throttle pedal is completely released the bus starts regenerative braking.

The benefits include an easier driving experience, less brake pad wear and lower maintenance cost. One pedal drive system also assists drivers in heavy traffic with minimum usage of the brake pedal which creates a smooth ride and more control.



FLEXIBLE BATTERY PACK AND CHARGING SOLUTIONS

We know operational needs vary and Temsa offers customized solutions for different ranges destinations and road conditions.

The TS45E battery packaging size is flexible which allows the end-user to configure different battery sizes considering their budget and range needs. Similarly, the charging type can be configured depending on the infrastructure needs.



GENERAL MEASUREMENT AND CAPACITY

Overall Length	45'	Interior Height	78"
Overall Width	102"	Turning Radius	40.2'
Overall Height	11'6"	GVWR	54,000 lbs
Wheelbase	310.8"	Underfloor Luggage Volume	265 ft³
Front / Rear Overhang	78.5"/112"	Passenger Capacity	56

STANDARD EQUIPMENT

Motor/Power/Torque	TM4 Sumo HD/ 370 kW/ 3,700 Nm (2,730 ft-lb)
Body	Stainless Steel Monocoque Integral Structure
Baggage Doors	Aluminum, Pantograph Type
Front Axle	ZF RL 75E -Independent, 18,078 lbs Load Capacity
Rear Axle	ZF A 132 with 5.22 Dif. Ratio, 27,116 lbs Load Capacity
Tag Axle	Steerable, ZF RL75A, 16,534 lbs Load Capacity
Wheels & Tires	22.5" Alcoa Dura-Bright Wheels , 315/80R 22.5 Continental
Steering System	Power Steering System with Tilt and Telescopic Steering Wheel
Suspension	Independent Suspension with Air Bags and Shock Absorbers

ENERGY STORAGES SYSTEM

Batery Type	Li-Ion NMC
Battery Capacity	560 kWh
Usable SoC	520 kWh
Range & Top Speed	250 miles/72 mph

CHARGING PLUG-IN

Charge Rate (kW)	150kW Max
Charge Time (5% to 97%)	< 4 hours
Plug/Adapter/Interface	CCS Type 1
Location of Charge Port	Rear Curbside
EVSE Supply Voltage, Max Current, Type	DC, 200A, Stationary

SAFETY

Brakes	Bendix® ESP® System, All Wheel Disc Brakes Electronic Stability Control (ESC), Automatic Traction Control (ATC), Antilock Braking System (ABS)
Seating	3-Point Safety Seat Belts for Driver & Passenger
Warnings	Brake Pad Wearing Indicator, Low Voltage, Engine Door Open
Cruise	Cruise Control System

ELECTRICAL SYSTEMS

Electrical System(Low Voltage)	12-24 Volt, Continental Multiplex System , 2x12 V 225 Ah
Lights	LED Headlights, DRL and Fog Light, LED Exterior & Interior Lighting
Preheater	Preheater (Electric) with 22kW / 68,000 Btu/h
Diagnostic	Real Time Diagnostics of Electric Motor, Batteries, Multiplex, A/C System

INTERIOR

Restroom	Recirculating, with 16 Gallon Tank
Windows	Rear Window and Tempered Laminated Side Windows
Seating	56+1 Reclining Seats with Leather Headrest, Piping, Side Boxing, Footrest, Magazine Net, Rubber Cupholder
Driver Seat	ISRI™ Air Ride 3-Point Safety Belt
Passenger Modules	Adjustable Air Vents, Reading Lights, Speaker
Driver Shades	Electric Two-Piece Overlapping Front Sun Visor, Manual Driver Side Sun Visor
HVAC	Mobile Climate Control A/C and A/C Compressor Roof Cooling, Roof & Convector Heating
Media	REI A/V System ECVR-6700T-AM/FM/DVD/MP3/BT 6 15" REI Monitors, USB Plugs for Driver and Passengers

OPTIONAL EQUIPMENT

Enclosed Parcel Racks	Passenger Side Shades	Leather & Fabric Seat Options	HDMI Media Kit
REI 360 Camera System	Second Preheater (Diesel)	Destination Sign	Braun Wheelchair Lift
REI Cordless Microphone	Driver Microphone	External DVD	

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