

# TEMSA TS45E



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**TEMSA**





## TEMSA TECH EV SOLUTIONS

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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

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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

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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

Length .....	45'	Interior Height.....	78"
Width .....	102"	Turning Radius .....	40.2'
Height .....	11'6"	GVWR .....	54,000 lbs
Wheelbase .....	310.8"	Underfloor Luggage Volume .....	265 ft <sup>3</sup>
Front / Rear Overhang .....	78.5"/112"	Passenger Capacity.....	56

## STANDARD EQUIPMENT

Motor/Power/Torque .....	TM4 Sumo HD/ 350 kW/ 3,700 Nm (2,730 ft-lb)
Body .....	Stainless Steel Monocoque Integral Structure Three-Piece Front and Rear Bumper
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 .....	22.5" Alcoa Dura-Bright Wheels
Tires .....	315/80R 22.5 Continental
Steering System .....	Power Steering System with Tilt and Telescopic Steering Wheel Tag Axle Steering System (RAS)
Suspension .....	Independent Suspension with Air Bags and Shock Absorbers Full Lifting and Front Kneeling
Mirror .....	Chrome Upright Mirror w Integrated Turn Signals
Exterior .....	Rub Rails, WCL Ready

## ENERGY STORAGES SYSTEM

Battery 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
Tire Pressure Monitoring System (TPMS).....	Bendix SmarTire®
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.....	Touchscreen 2 DIN REI A/V System AM/FM/DVD/MP3/BT (6) 15" REI Monitors, USB Plugs for Driver and Passengers
Flooring .....	Gerflor Anticwood

## OPTIONAL EQUIPMENT

Enclosed Parcel Racks	Passenger Side Shades	Leather & Fabric Seat Options	HDMI Media Kit
REI 360 Camera System	Destination Sign	Braun Wheelchair Lift	REI Cordless Microphone
Driver Microphone	External DVD	Diesel Preheater (32kW)	

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