

# TEMSA

## TS45E



THE NEW VISION  
OF ENERGY

[temsa.com](http://temsa.com)







## 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.





## ONE PEDAL DRIVE

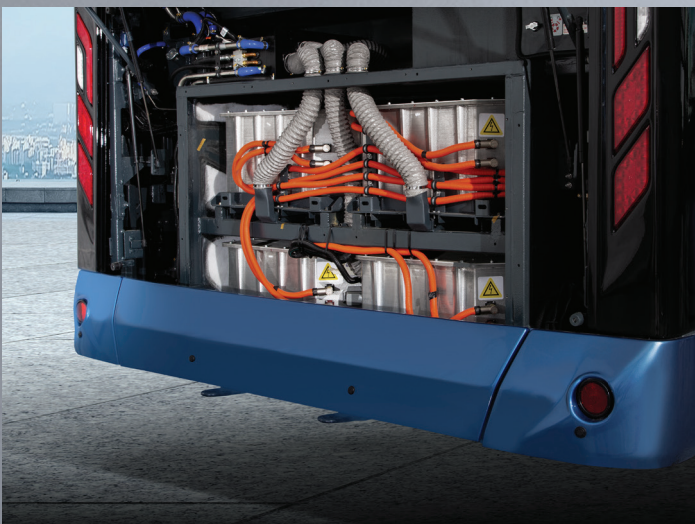
With the one-pedal drive system on the TS45E, it allows you to control the vehicle speed with just the throttle pedal. When the throttle pedal is completely released the bus starts regenerative braking. The benefits include an easier driving experience, less brake pad wear and lower maintenance cost. 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.

## CONVENIENT FOR MULTI-PURPOSE OPERATION

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.

## 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.









<div><div>GENERAL</div><div><div><div>Length 45’</div><div>Height 11’6”</div><div>Width 102”</div><div>Interior Height 78”</div></div><div><div>Wheelbase 310.8”</div><div>Front Overhang 78.5”</div><div>Rear Overhang 112”</div><div>Underfloor Luggage Volume 265ft³</div></div><div><div>Turning Radius 40.2’</div><div>GVWR 54,000 lbs</div><div>Passenger Capacity 56</div></div></div></div>	<div><div>Seating</div><div>3-Point Safety Seat Belts for Driver &amp; Passenger</div><div>Warnings</div><div>Brake Pad Wearing Indicator, Low Voltage, Engine Door Open</div><div>Cruise</div><div>One Pedal Driving</div></div>
<div><div>STANDARD EQUIPMENTS</div><div>Motor/Power/Torque TM4 Sumo HD/ 372 kW/ 3,444 Nm (2,540 ft-lb)</div><div>Body</div><div>Stainless Steel Monocoque Integral Structure</div><div>Baggage Doors</div><div>Aluminum, Pantograph Type</div><div>Front Axle</div><div>ZF RL 75E -Independent, 18,078 lbs Load Capacity</div><div>Rear Axle</div><div>ZF A 132 with 5.22 Dif. Ratio, 27,116 lbs Load Capacity</div><div>Tag Axle</div><div>Steerable, ZF RL75A, 16,534 lbs Load Capacity</div><div>Wheels</div><div>22.5” Alcoa Dura-Bright Wheels</div><div>Tires</div><div>315/80R 22.5 Continental</div><div>Steering System</div><div>Power Steering System with Tilt and Telescopic Steering Wheel</div><div>Suspension</div><div>Independent Suspension with Air Bags and Shock Absorbers</div></div>	<div><div>ELECTRICAL SYSTEMS</div><div>Electrical System(Low Voltage)</div><div>12-24 Volt, Continental Multiplex System , 2x12 V 225 Ah</div><div>Battery</div><div>2x12 V 225 Ah</div><div>Lights</div><div>LED Headlights, DRL and Fog Light, LED Exterior &amp; Interior Lighting</div><div>Preheater</div><div>Preheater (Electric) with 22kW / 68,000 Btu/h</div><div>Diagnostic</div><div>Real Time Diagnostics of Electric Motor, Batteries, Multiplex, A/C System</div></div>
<div><div>ENERGY STORAGES SYSTEM</div><div>Batery Type</div><div>Li-Ion NMC</div><div>Battery Capacity</div><div>560 kWh</div><div>Usable SoC</div><div>520 kWh</div><div>Range &amp; Top Speed</div><div>250 miles</div><div>72 mph</div></div>	<div><div>INTERIOR</div><div>Restroom</div><div>Recirculating, with 16 Gallon Tank</div><div>Windows</div><div>Rear Window and Tempered Laminated Side Windows</div><div>Seating</div><div>56+1 Reclining Seats with Leather Headrest, Piping, Side Boxing, Footrest, Magazine Net, Rubber Cupholder</div><div>Passenger Modules</div><div>Adjustable Air Vents, Reading Lights, Speaker</div><div>Driver Seat</div><div>ISRI™ Air Ride 3-Point Safety Belt</div><div>Driver Shades</div><div>Electric Two-Piece Overlapping Front Sun Visor, Manual Driver Side Sun Visor</div><div>HVAC</div><div>Mobile Climate Control A/C and A/C Compressor</div><div>Roof Cooling, Roof &amp; Convector Heating</div><div>Media</div><div>REI A/V System ECVR-6700T-AM/FM/DVD/MP3/BT</div><div>6 15” REI Monitors, USB Plugs for Driver and Passengers</div></div>
<div><div>CHARGING PLUG-IN</div><div>Charge Rate (kW)</div><div>150kW Max</div><div>Charge Time (5% to 97%)</div><div>&lt; 4 hours</div><div>Plug/Adapter/Interface</div><div>CCS Type 1</div><div>Location of Charge Port</div><div>Rear Curbside</div><div>EVSE Supply Voltage, Max Current, Type</div><div>DC, 200A, Stationary</div></div>	<div><div>OPTIONAL</div><div>Leather &amp; Fabric Seat Options</div><div>Passenger Side Shades</div><div>Enclosed Parcel Racks</div><div>HDMI Media Kit</div><div>REI 360 Camera System</div><div>Second Preheater (Diesel)</div><div>Destination Sign</div><div>Braun Wheelchair Lift</div><div>REI Cordless Microphone</div><div>Driver Microphone</div><div>External DVD</div><div>Diesel Preheater</div></div>
<div><div>SAFETY</div><div>Brakes</div><div>Bendix® ESP® System, All Wheel Disc Brakes</div><div>Electronic Stability Control (ESC), Automatic Traction Control (ATC), Antilock Braking System (ABS)</div></div>	<div><div>*The list of optional equipment above does not incorporate our wide offerings. Please contact your TEMSA Sales Manager for options not listed.</div></div>





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TS45E









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