TEMSA
TS45E

THE NEW VISION
OF ENERGY

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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.

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.

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GENERAL

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

STANDARD EQUIPMENTS

Motor/Power/Torque
TM4 Sumo HD/ 372 kW/ 3,444 Nm (2,540 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
22.5″ Alcoa Dura-Bright Wheels

Tires
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
One Pedal Driving

ELECTRICAL SYSTEMS

Electrical System(Low Voltage)
12-24 Volt, Continental Multiplex System , 2x12 V 225 Ah

Battery
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

Passenger Modules
Adjustable Air Vents, Reading Lights, Speaker

Driver Seat
ISRI™ Air Ride 3-Point Safety Belt

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

Leather & Fabric Seat Options

Passeger Side Shades

Enclosed Parcel Racks

HDMI Media Kit

REI 360 Camera System

Second Preheater (Diesel)

Destination Sign

Braun Wheelchair Lift

REI Cordless Microphone

Driver Microphone

External DVD

Diesel Preheater

*The list of optional equipment above does not incorporate our wide offerings. Please contact your TEMSA Sales Manager for options not listed.

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