

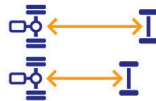
Optimal E1 Electric Chassis



All Battery/Motor
Equipment Within
Chassis Rails



All-Electric
Propulsion



158" & 176"
Wheelbases



70 MPH
Top Speed



30% Gradeability
(Equivalent to
OEM Ford E450)



Based on the Dependable
Ford E540 DRW BE

Stay Connected with
OEM Dash Cluster

Push Button
Shift Mechanism

Optimal E1 Product Specifications

E1 Platform Specifications

Chassis

Wheelbase	158" OEM Ford
Base Chassis Platform	Ford E450 Cutaway Cab Chassis
GVWR	14,500# (6577kg)
GAWR Front Axle	5000# (2268kg)
GAWR Rear Axle	9,600# (4354kg)
Gradability	30% Verified through Physical Testing
Tire Size	225/75R16 Load Range E
Top Speed	70 mph
Vehicle Curb Weight	6413#
Patient Applications	Multiple Patent Application on file as of 2/15/21
Chassis Height	Standard OEM 26"



Battery Technology

Battery Manufacturer	Proterra Power (manufactured in California)
Battery Warranty	6 years unlimited mileage
Battery Chemistry	NMC, lithium nickel manfanese cobalt
Total Number of Batteries	One (1)
Battery Mass	745kg
Cooling	Liquid Cooled (Water/Glycol)
Battery Energy	113kwh
Cycle Life	>4000@90% DOD
Temperature Range	-22 Degrees F to +133 Degrees F
System Voltage	326 V (Nominal)
Battery Leasing	Available through Proterra Power
Durability Rating	All Components rated at IP67

Charging Technology

Standard Charging

Level 2(J1772) 13.2 kW
 AC Level 1 Charging (120V)
 AC Level 2 Charging (240V)
 Full Charge <2 Hours

Optional Charging

CCS Type 1 Charge Inlet
 CDC Level 2 FC (Up to 870V) 60kW
 Full Charge <2 Hours

Cell Type

2170 Cylindrical NMC 811

Max Charging

DC-FC 60kW

Traction Motor Technology

Manufacturer	JJE Traction Motor and Inverter
Traction Motor Warranty	5 years 150,000 miles
Continuous Torque	1000Nm (737.5 ft/lbs)
Peak Torque	1700Nm (1253.6 ft/lbs)
Continuous Power	170 kWh (228 HP)
Peak Power	280 kWh (375.5 HP)
Voltage Range	300-750vdc

