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## MECHANICAL

### FUEL CELL SYSTEM

<b>Name</b>	<b>Toyota Fuel Cell System (TFCS)</b>
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### FUEL CELL STACK

<b>Name</b>	<b>Toyota Fuel Cell Stack</b>
<b>Fuel Cell Stack Type</b>	<b>Solid polymer electrolyte fuel cell</b>
<b>Humidification System</b>	<b>Internal circulation system (humidifier-less)</b>
<b>Power Output</b>	<b>153 HP (114 kW) MAX</b>
<b>Output Density By Volume:</b>	<b>3.1 kW/L</b>
<b>Output Density By Weight:</b>	<b>2.0 kW/kg</b>
<b>Cell Number of cells in one stack:</b>	<b>370 (single-line stacking)</b>
<b>Thickness:</b>	<b>1.34 mm</b>
<b>Weight:</b>	<b>102 g</b>
<b>Flow Channel:</b>	<b>3D fine-mesh flow field (cathode)</b>
<b>Emission Rating</b>	<b>Zero Emissions Vehicle (ZEV)</b>

### ELECTRIC MOTOR

<b>Motor Type</b>	<b>AC synchronous electric generator</b>
<b>Power Output</b>	<b>151 HP (113 kW) MAX</b>
<b>Peak Torque</b>	<b>247 lb-ft (335 Nm)</b>

### HYDROGEN TANKS

<b>Storage Method</b>	<b>Carbon fiber reinforced tanks</b>
<b>Number of Tanks</b>	<b>2</b>
<b>Type</b>	<b>Type-4</b>

## HYDROGEN TANKS (Continued)

Material	<b>Three layer structure:</b> <b>1. Inner:</b> polymer-lined layer to hold the hydrogen <b>2. Middle layer:</b> structural layer of carbon-fiber-reinforced polymer to provide strength <b>3. Outer:</b> glass-fiber-reinforced polymer layer to help protect from surface abrasion
Fuel	Compressed hydrogen gas
Maximum Filling Pressure	87.5 MPa
Normal Operating Pressure	70 MPa (approx. 10,000 psi)
Storage Density (Capacity)	5.7 weight %
Internal Volume:	122.4 L
Internal Volume Front Tank	60.0 L
Internal Volume Rear Tank	62.4 L
Hydrogen Storage Mass	Approx. 5.0 kg
Refueling Time	About 5 minutes

## DRIVE BATTERY

Type	Nickel-metal hydride
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## FUEL CELL BOOST CONVERTER

Number of Phases	4 phases
Voltage	650V (MAX)
Volume	13 L

## EPA ESTIMATES

Fuel Consumption	67/67/67 mpge city/hwy/combined
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## VEHICLE

Cruising Range	312 miles (EPA estimated range)
Maximum Speed	111 mph
Acceleration Performance	0 – 60 mph: 9.0 seconds
Coefficient of Drag (C <sub>d</sub> )	0.29
Cold Start Capability	-22°F (-30°C)

## CHASSIS AND BODY

Drivetrain	Front-wheel drive
Body Construction	Unitized body
Suspension	Independent MacPherson strut front suspension with stabilizer bar and hydraulic shock absorbers; double wishbone rear suspension with coil springs, trailing arms, stabilizer bar and hydraulic shock absorbers
Starting System	Electronic Push-Button Start System
Steering	Electric Power Steering (EPS) Power-assisted rack-and-pinion
Brakes	Power assisted ventilated front disc brakes and solid rear disc brakes and Star Safety System™

## EXTERIOR DIMENSIONS

Wheelbase	109.5 in.
Overall Length	192.5 in.
Overall Width	71.5 in
Overall Height	60.5 in
Minimum Running Ground Clearance	5.1 in.
Tires	P215/55R17
Tire Repair Kit	No spare
Track	60.5/61

## INTERIOR DIMENSIONS, front/rear (in.)

Head room	38.5/36.8	Fr/Rr
Shoulder room	54.3/53.52	Fr/Rr
Hip room	53.4/52.4	Fr/Rr
Leg room	42.5/30.1	Fr/Rr

## WEIGHTS AND CAPACITIES

Curb Weight (lbs.)	4078.5
Seating capacity	4
Passenger volume (cu. ft.)	85.7
Cargo Volume (cu. ft.)	12.8
Fuel Cell Stack Weight (lbs.)	123.5
Hydrogen Tank Weight (lbs.)	192.9

## WARRANTY COVERAGE

- **8-year/100,000-mile Fuel Cell System**  
 (FC Battery Pack, Battery ECU, FC Air Compressor, FC Boost Converter, FC ECU, H2 tanks, FC PCU (Power Control Unit), FC Stack, HF ECU (H2 Fueling ECU), and Power Management ECU (HV ECU))
- **5-year/60,000-mile Other Powertrain Components**
- **3-year/36,000-mile Basic**