

2016 KIA SOUL EV SPECIFICATIONS

	EV-e	EV	EV+
ENGINE			
TYPE/LAYOUT	AC synchronous permanent magnet electric motor	AC synchronous permanent magnet electric motor	AC synchronous permanent magnet electric motor
HORSEPOWER	109 hp	109 hp	109 hp
TORQUE	210 lb.-ft.	210 lb.-ft.	210 lb.-ft.
DRIVETRAIN			
LAYOUT/DRIVE	Front engine/FWD	Front engine/FWD	Front engine/FWD
TRANSMISSION	1-speed gear reduction	1-speed gear reduction	1-speed gear reduction
GEAR RATIOS	8.206	8.206	8.206
BATTERY			
TYPE	Lithium Ion Polymer	Lithium Ion Polymer	Lithium Ion Polymer
ENERGY	27 kWh	27 kWh	27 kWh
POWER	90 kW	90 kW	90 kW
VOLTS	360	360	360
BATTERY PACK WATT HOURS/KG (CELL)	200	200	200
BATTERY PACK ENERGY DENSITY WATT HOURS/KG (CELL)	98.4	98.4	98.4
AMP/HOUR (AH)	75	75	75
VOLUME (ℓ)	241 (8.5 cu.ft.)	241 (8.5 cu.ft.)	241 (8.5 cu.ft.)
WEIGHT (LBS)	605	605	605
12V BATTERY CAPACITY (AH)	45AH	45AH	45AH

CHARGING

ON-BOARD CHARGER (OBC)	6.6 kW	6.6 kW	6.6 kW
PORT LOCATIONS	Behind front grille	Behind front grille	Behind front grille
LEVEL 1 AND LEVEL 2 PORT	SAE J1772	SAE J1772	SAE J1772
DC FAST CHARGE PORT	CHAdeMO	CHAdeMO	CHAdeMO
CHARGING TIME	-	-	-
120V, 12A	24-hours	24-hours	24-hours
240V, 30A	4-5 hours	4-5 hours	4-5 hours
480V	33 minutes (50 kW) (80%)	33 minutes (50 kW) (80%)	33 minutes (50 kW) (80%)
STANDARD CHARGER	Level 1, 120 volt	Level 1, 120 volt	Level 1, 120 volt

EXTERIOR DIMENSIONS

LENGTH (IN.)	163.0 in.	163.0 in.	163.0 in.
WIDTH (IN.)	70.9 in.	70.9 in.	70.9 in.
HEIGHT (IN.)	63.0 in.	63.0 in.	63.0 in.
WHEELBASE (IN.)	101.2 in.	101.2 in.	101.2 in.
TRACK (IN.), FRONT/REAR	62.0 in./62.4 in.	62.0 in./62.4 in.	62.0 in./62.4 in.
OVERHANG (IN.), FRONT/REAR	33.1 in./28.7 in.	33.1 in./28.7 in.	33.1 in./28.7 in.
APPROACH ANGLE / DEPARTURE ANGLE (DEGREE)	17.3 / 29.2	17.3 / 29.2	17.3 / 29.2
MIN. GROUND CLEARANCE (IN.)	5.9 in.	5.9 in.	5.9 in.

INTERIOR DIMENSIONS

SEATING CAPACITY	5 passenger	5 passenger	5 passenger
HEAD ROOM, FRONT/REAR (IN.)	39.6 in./39.5 in.	39.6 in./39.5 in.	39.6 in./39.5 in.
LEG ROOM, FRONT/REAR (IN.)	40.9 in./36.0 in.	40.9 in./36.0 in.	40.9 in./36.0 in.

SHOULDER ROOM, FRONT/REAR (IN.)	55.5 in./54.7 in.	55.5 in./54.7 in.	55.5 in./54.7 in.
HIP ROOM FRONT/REAR (IN.)	53.2 in./49.3 in.	53.2 in./49.3 in.	53.2 in./49.3 in.
PASSENGER VOLUME (CU. FT.)	97.1 cu. ft.	97.1 cu. ft.	97.1 cu. ft.
CARGO VOLUME (REAR SEAT UP) (CU. FT.) WITH LUGGAGE UNDER TRAY	18.8 cu. ft.	18.8 cu. ft.	18.8 cu. ft.
CARGO VOLUME (REAR SEAT DOWN) (CU. FT.) WITH LUGGAGE UNDER TRAY	49.5 cu. ft.	49.5 cu. ft.	49.5 cu. ft.

STEERING

TYPE	Rack & Pinion - Motor-Driven Power Steering (MDPS)	Rack & Pinion - Motor-Driven Power Steering (MDPS)	Rack & Pinion - Motor-Driven Power Steering (MDPS)
ASSIST	Column-Mounted Electric Motor	Column-Mounted Electric Motor	Column-Mounted Electric Motor
TURNS, LOCK-TO-LOCK	2.85	2.85	2.85
MIN. TURNING CIRCLE RADIUS	17.5 ft.	17.5 ft.	17.5 ft.
STEERING RATIO	15.7:1	15.7:1	15.7:1

BRAKES

TYPE FRONT/REAR	Active hydraulic boost	Active hydraulic boost	Active hydraulic boost
SIZE (IN.) FRONT/REAR	11.8-in., vented / 11.1-in., solid	11.8-in., vented / 11.1-in., solid	11.8-in., vented / 11.1-in., solid
REGENERATIVE BRAKING	Reverse motor polarity; 12% kinetic energy recovery	Reverse motor polarity; 12% kinetic energy recovery	Reverse motor polarity; 12% kinetic energy recovery
PARKING BRAKE	Electronic Parking Brake (EPB - MOC type)	Electronic Parking Brake (EPB - MOC type)	Electronic Parking Brake (EPB - MOC type)

SUSPENSION

FRONT	MacPherson strut type, coil spring	MacPherson strut type, coil spring	MacPherson strut type, coil spring
REAR	Coupled torsion beam axle (CTBA)	Coupled torsion beam axle (CTBA)	Coupled torsion beam axle (CTBA)

SHOCK ABSORBER (FRONT/REAR)

Strut / Mono Type

Strut / Mono Type

Strut / Mono Type

WHEELS/TIRES**WHEEL SIZE (IN.)**

6.5Jx16 Alloy

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TIRE SIZE

205/60R16 92H

205/60R16 92H

205/60R16 92H

SPARE TIRE

Tire Mobility Kit (TMK)

Tire Mobility Kit (TMK)

Tire Mobility Kit (TMK)

WEIGHTS**CURB WEIGHT**

3,289 lbs.

3,289 lbs.

3,289 lbs.

GROSS WEIGHT

4,321 lbs.

4,321 lbs.

4,321 lbs.

TOWING CAPACITY**TOWING CAPACITY**

Not recommended

Not recommended

Not recommended

PERFORMANCE**MAX. SPEED (MPH)**

90 mph

90 mph

90 mph

ACCELERATION PERFORMANCE (SEC)

-

-

-

0 - 60 MPH

11.2

11.2

11.2

18.6 - 43.5 MPH

3.9

3.9

3.9

37.3 - 62 MPH

6.7

6.7

6.7

49.7 - 74.6 MPH

9.3

9.3

9.3

BRAKE PERFORMANCE (FT.)

-

-

-

62 - 0 MPH

140 ft.

140 ft.

140 ft.

ESTIMATED FUEL ECONOMY**MPGE**

-

-

-

CITY

120

120

120

HIGHWAY

92

92

92

COMBINED

105

105

105

RANGE (EPA ESTIMATED)

93 miles

93 miles

93 miles