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2016 Sonata Hybrid & Plug-In Hybrid

ENGINE

Type	2.0L GDI 4-cylinder DOHC 16-valve with DCVVT (Dual Continuously Variable Valve Timing)
Materials	Aluminum block and head
Bore & Stroke	81.0 mm x 97.0 mm
Displacement	1,999 cc
Horsepower	154 hp @ 6,000 rpm
Torque	140 lb-ft @ 5,000 rpm
Valves per cylinder	4
Compression ratio	13.5:1
Hybrid type	Parallel

Electric Motor

Horsepower	Hybrid: 51 hp (38kW) @ 1,770-2,000 rpm
	Plug-In Hybrid: 67 hp (50kW) @ 2,330-3,300 rpm
Torque	151 lb-ft @ 0-1,770 rpm
Motor type	Interior-Permanent Magnet Synchronous Motor
Voltage	Hybrid: Max. 270V
	Plug-In Hybrid: Max. 360V

Hybrid System Performance Combined

Net Horsepower	Hybrid: 193 hp @ 6,000 rpm
	Plug-In Hybrid: 202 hp @ 6,000 rpm

Battery

Type	Lithium polymer battery
Power output	Hybrid: 56kW
	Plug-In Hybrid: 68kW

TRANSMISSION

Six-speed electronic automatic without lock-up torque converter, shift lock and SHIFTRONIC™ manual shift mode

Gear ratios	Hybrid	Plug-In Hybrid
First	4.639:1	4.639:1
Second	2.826:1	2.826:1
Third	1.841:1	1.841:1
Fourth	1.386:1	1.386:1
Fifth	1.000:1	1.000:1
Sixth	0.772:1	0.772:1
Reverse	3.385:1	3.385:1

Final drive	3.320:1	3.510:1
SUSPENSION		
Front	MacPherson strut with High Performance Damper (HPD) shock absorbers and 23 mm stabilizer bar (24.2 mm Plug-in Hybrid)	
Rear	Independent multi-link design with coil springs, High Performance Damper (HPD) shock absorbers and 17 mm stabilizer bar	
STEERING		
Type	Motor-Driven Power Steering (MDPS) column mounted, Rack-and-Pinion, Power assisted, Engine-RPM-Sensing	
Overall Ratio	14.3:1	
Turns, lock to lock	2.78	
Turning diameter	35.6 ft., curb-to-curb	
BRAKES/TIRES/WHEELS		
Front	Power-assisted 12.0-in. ventilated disc	
Rear	Power-assisted 11.2-in. ventilated disc	
ABS	4-wheel, 4-channel and 4-sensor with Electronic Brake-force Distribution (EBD)	
Tires	P205/65R16	
	P215/55R17 (Limited)	
	Tire mending kit (in lieu of temporary spare tire)	
Wheels	16-in. x 6.5J Alloy	
	17-in. x 6.5J Alloy (Limited)	
EXTERIOR DIMENSIONS		
Wheelbase	110.4 in.	
Overall length	191.1 in.	
Overall width	73.4 in.	
Overall height	57.9 in.	
Coefficient of drag (Cd)	0.24	
Wheel tread, front/rear	16-in. tire: 63.5 in. / 63.8 in.	
	17-in. tire: 63.1 in. / 63.3 in.	
INTERIOR DIMENSIONS		
Head room		
Front (w/ Panoramic Sunroof)	40.0 in.	
Rear (w/ Panoramic Sunroof)	38.0 in.	
Leg room		
Front	45.5 in.	
Rear	35.6 in.	
Shoulder room		
Front	57.9 in.	
Rear	56.5 in.	

Hip room			
Front	55.3 in.		
Rear	56.1 in.		
Passenger volume	106.1 cu. ft.		
Cargo (trunk) volume	Hybrid: 13.3 cu. ft.		
	Plug-In Hybrid: 9.9 cu. ft.		
Total volume	Hybrid: 119.4 cu. ft.		
	Plug-In Hybrid: 116.0 cu. ft.		
CAPACITIES			
Fuel	Hybrid: 15.85 gallons		
	Plug-In Hybrid: 14.53 gallons		
Oil	4.3 quarts		
CURB WEIGHT			
Curb weight (est.)	Hybrid: 3,497 lbs		
	Hybrid (Limited): 3,560 lbs		
	Plug-In Hybrid: 3,787 lbs		
	Plug-In Hybrid (Limited): 3,810 lbs		
FUEL ECONOMY	Hybrid	Hybrid Limited	Plug-In Hybrid
City	40 mpg	39 mpg	N/A
Highway	44 mpg	43 mpg	N/A
Combined	42 mpg	41 mpg	40 mpg
Electric + Gasoline (EV mode)	N/A	N/A	93 MPGe
All Electric Range (AER)	N/A	N/A	24 miles
CHARGING TIMES (Plug-In Hybrid)			
110/120V (Level 1)	< 9 hours (internal estimate)		
220/240V (Level 2)	< 3 hours (internal estimate)		