

2023 Sonata Specifications

Hyundai Motor America
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MECHANICAL			
Engine Lineup	2.5L (SE/SEL)	1.6T (SEL Plus/Limited)	2.5T (N Line)
Smartstream 2.5L GDI + MPI DOHC 16-valve Inline 4-cylinder (2,497 cc) Bore & Stroke (mm): 88.5 x 101.5	S 191 hp @ 6100 rpm 181 lb. ft. @4000	-	-
Smartstream 1.6L Turbo-GDI DOHC 16-valve Inline 4-cyl (1,598 cc) Bore & Stroke (mm): 75.6 x 89	-	S 180 hp @ 5500 195 lb.-ft. @ 1500-4500	-
Smartstream 2.5L Turbo GDI + MPI DOHC 16-valve Inline 4-cylinder (2,497 cc) Bore & Stroke (mm): 88.5 x 101.5	-	-	S 290 hp @ 5800 311 lb.-ft. @ 1650-4000
Engine Features	2.5L (SE/SEL)	1.6T (SEL Plus/Limited)	2.5T (N Line)
Continuously Variable Valve Duration (CVVD)	-	S	-
Continuously Variable Valve Timing (CVVT)	S	-	S
Valves per Cylinder	4	4	4
Compression Ratio	13.0	10.5	10.5
Motor Mounts	Hydraulic & conventional rubber		
Recommended Fuel	Unleaded	Unleaded	Unleaded
Emissions System WCC + UCC	(SULEV30)	(N/A ULEV70)	(N/A ULEV70)

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MECHANICAL (cont'd)				
Electrical		2.5L (SE/SEL)	1.6T (SEL Plus/Limited)	2.5L (N Line)
Ignition System		Electronic / Distributorless	Electronic / Distributorless	Electronic / Distributorless
Starter		12V 1.4Kw (ISG)/ 12v 1.2Kw (non-ISG)	12V 0.9Kw	12v 1.2Kw
Alternator		13.5V 150A	13.5V 130A	13.5V 150A
Transmission and Drive System		2.5L	1.6T	2.5T
Drive Configuration		FWD		
Transmissi on Type	Smartstream 8-speed electronic automatic w/OD lock-up torque converter	S		
8-speed N Wet Dual Clutch				S
Clutch Type		Torque converter		Wet-Friction Twin
Steering wheel paddle shifters		-	S	S
Gear Ratios (:1)	1 st 2 nd 3 rd 4 th 5 th 6 th 7 th 8 th Reverse	4.717 2.906 1.864 1.423 1.224 1 0.79 0.635 3.239		3.643 2.304 2.217 1.621 0.884 0.702 0.791 0.660 3.697
Final Gear Ratio		3.195	3.367	4.077(1,2,5,6,R) 2.944(3,4,7,8)

2023 Sonata HEV Specifications

MECHANICAL	
Engine Lineup	Hybrid
Nu Product Enhancement Engine Aluminum block and heads	S
2.0L GDI DOHC 16-valve Inline 4-cylinder (1,999 cc) Bore & Stroke (mm): 81 x 97	150 hp @ 6,000 rpm 139 lb.-ft. @ 5,000
Engine Features	Hybrid
Dual Continuously Variable Valve Timing (DCVVT)	S
Valves per Cylinder	4
Compression Ratio	14.0
Motor Mounts	Hydraulic & conventional rubber
Intake System	TIS
Recommended Fuel	Unleaded
Emissions Control System	SULEV30
Catalytic Converter: Warm-up (WCC) + Under-floor (UCC)	S
Electric Motor / Battery	Hybrid
Permanent magnet synchronous motor	S
Power Output	39 kW (51 HP) @ 1,800–2,300 rpm
Torque	151 lb.-ft. @ 0-1,800 rpm
Battery Type	Lithium-Ion Polymer
Voltage	270V (max)
Battery System Capacity	1.62 kWh
Battery Power Output	56 kW

2023 Sonata HEV Specifications

MECHANICAL (cont'd)		
Hybrid System Combined		Hybrid
Combined Horsepower		192 hp
Electrical		Hybrid
Ignition System		Electronic / Distributorless
Drive Configuration		FWD
Transmission Type	6-speed electronic automatic, shift lock and SHIFTRONIC™ manual shift mode (paddle shifters)	S
	Clutch Type	Engine clutch (wet clutch)
Gear Ratios (:1)		AT
	1 st	4.639
	2 nd	2.826
	3 rd	1.841
	4 th	1.386
	5 th	1.000
	6 th	0.772
	Reverse	3.385
Final Gear Ratio		3.510

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MECHANICAL (cont'd)					
Brakes		2.5L (SE/SEL)	1.6T (SEL Plus/Limited)	2.5T (N Line)	2.0 Hybrid (All)
General		Power-assisted w/ pressure proportioning valves			
Front	Type Size (diameter)	Ventilated disc 12.0"	Ventilated disc 12.0"	Ventilated disc 13.6"	Ventilated disc 12.0"
Rear	Type Size (diameter)	Solid disc 11.2"	Solid disc 11.2"	Solid disc 12.8"	Solid disc 11.2"
ABS with Electronic Brake-force Distribution (EBD)	Number of Wheels Number of Channels Number of Sensors w/TCS	S 4 4 4	S 4 4 4	S 4 4 4	S 4 4 4
Brake Assist	ESC-equipped models	S	S	S	S
Parking Brake	Type (Ball In Ramp)	S	S	S	S
Electronic Parking Brake	w/ Automatic Vehicle Hold	S	S	S	S

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MECHANICAL (cont'd)					
Steering		2.5L (SE/SEL)	1.6T (SEL Plus/Limited)	2.5T (N Line)	2.0 Hybrid (All)
Motor-Driven Power Steering	Column-mounted	S	S	-	S
	Rack-mounted	-	-	S	-
Type		Rack-and-Pinion	Rack-and-Pinion	Rack-and-Pinion	Rack-and-Pinion
Power Assisted, Engine-RPM-Sensing		S	S	S	S
Overall Ratio		13.27	13.27	12.35	13.27
Turns (lock to lock)		2.6	2.6	2.44	2.6
Turning Diameter (curb to curb, in feet)		35.9	35.9	35.9	35.9
Suspension		2.5L (SE/SEL)	1.6T (SEL Plus/Limited)	2.5T (N Line)	2.0 Hybrid (All)
Front	Type	MacPherson Strut	MacPherson Strut	MacPherson Strut	MacPherson Strut
	Stabilizer Bar	S	S	S	S
	Gas Shock Absorber	S	S	S	S
Rear	Type	Multi-link	Multi-link	Multi-link	Multi-link
	Stabilizer Bar	S	S	S	S
	Gas Shock Absorber	S	S	S	S

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DIMENSIONS	
Exterior (inches)	All Trims
Wheelbase	111.8
Overall Length	192.9
Overall Width (excludes mirrors)	73.2
Overall Height	56.9
Track Width (Front/Rear) 16"	64.3 / 64.6 (64.3/63.9 Hybrid)
Track Width (Front/Rear) 17"	63.9 / 64.2 (64.6/64.2 Hybrid)
Track Width (Front/Rear) 18"	63.7 / 63.9
Track Width (Front/Rear) 19"	63.4 / 63.7
Coefficient of Drag (Cd)	0.27 (0.24 Hybrid)
Minimum ground clearance (in.)	5.3
Interior (inches)	All Trims
Head Room (front/rear w/o sunroof)	40.0/38.4
Head Room (front/rear, w / sunroof)	40.0/37.4
Leg Room (front/rear)	46.1/34.8
Shoulder Room (front/rear)	57.9/56.1
Hip Room (front/rear)	54.6/54.4
Volume (cubic feet)	All Trims
Passenger Compartment	104.4
Cargo (Trunk)	16.0
Total	120.4

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CAPACITIES		2.5L		1.6T		2.5T	2.0L (Hybrid)		
Capacities		SE	SEL	SEL Plus	Limited	N Line	All		
Fuel Tank (gallons)		14.8	15.9				13.2		
Engine Oil (quarts)		5.9		4.9		6.7	5.5		
Engine Coolant (quarts)		4.0		2.9		3.8	3.0		
WEIGHTS & FUEL ECONOMY		2.5L		1.6T					
Weights		SE	SEL	SEL Plus	Limited	N Line	Blue	SEL	Limited
Curb (lbs.)		3,120	3,192 w/o sunroof 3,266 w sunroof	3,230	3,336	3,552	3,325 – 3,530	3,404 – 3,530	3,505 – 3,530
GVWR (lbs.)		4,354				4,564	4519		
Maximum Towing /Trailer Capacity (lbs.)		Not Recommended				Not Recommended			
Fuel Economy/EPA/Performance		SE	SEL	SEL Plus	Limited	N Line	All		
Emissions	SULEV 30	S		-		-	S		
	ULEV 70	-		S		S	9		
Greenhouse Gas Rating		TBD					7		
City/Hwy/Combined	Automatic Transmission	28/38/32	27/37/31	27/37/31		23/33/27	50/54/52		45/51/47
EPA Classification		Large Car							