2025 Kia Carnival Hybrid **Specifications**

	LXS	EX	SX	SX Prestige
Hybrid System Performance (Combined)				
Type	Permanent Magnet Synchronous Motor	Permanent Magnet Synchronous Motor	Permanent Magnet Synchronous Motor	Permanent Magnet Synchronous Motor
Power (hp)	18 hp	18 hp	18 hp	18 hp
Torque (lb.-ft.)	31.9 lb. - ft.	31.9 lb. - ft.	31.9 lb. - ft.	31.9 lb. - ft.
Electric Motor				
Type	Permanent Magnet Synchronous Motor	Permanent Magnet Synchronous Motor	Permanent Magnet Synchronous Motor	Permanent Magnet Synchronous Motor
Power (hp)	74.4 hp @ 1,700 - 2,600 rpm	74.4 hp @ 1,700 - 2,600 rpm	74.4 hp @ 1,700 - 2,600 rpm	74.4 hp @ 1,700 - 2,600 rpm
Torque (lb.-ft.)	224.2 hp @ 0 - 1,600 rpm	224.2 hp @ 0 - 1,600 rpm	224.2 hp @ 0 - 1,600 rpm	224.2 hp @ 0 - 1,600 rpm
Block	Aluminum	Aluminum	Aluminum	Aluminum
Head	Aluminum	Aluminum	Aluminum	Aluminum
Injection system	Distributorless (Plug Top Coil Type)	Distributorless (Plug Top Coil Type)	Distributorless (Plug Top Coil Type)	Distributorless (Plug Top Coil Type)
Valve System	16 Valve Swing Arms with Hydraulic Lash Adjuster	16 Valve Swing Arms with Hydraulic Lash Adjuster	16 Valve Swing Arms with Hydraulic Lash Adjuster	16 Valve Swing Arms with Hydraulic Lash Adjuster
Fuel Injection System	Gasoline Direct Injection (GDI)	Gasoline Direct Injection (GDI)	Gasoline Direct Injection (GDI)	Gasoline Direct Injection (GDI)
Rec. Fuel	Unleaded Gasoline (Regular 87 or higher)	Unleaded Gasoline (Regular 87 or higher)	Unleaded Gasoline (Regular 87 or higher)	Unleaded Gasoline (Regular 87 or higher)
Cooling System	Liquid cooled	Liquid cooled	Liquid cooled	Liquid cooled
Cooling capacity (L)	3.1 L	3.1 L	3.1 L	3.1 L
Emission Control System	WCC (warm-up catalytic converter) + UCC (underfloor catalytic converter)	WCC (warm-up catalytic converter) + UCC (underfloor catalytic converter)	WCC (warm-up catalytic converter) + UCC (underfloor catalytic converter)	WCC (warm-up catalytic converter) + UCC (underfloor catalytic converter)
Lubrication system	Gear Pump	Gear Pump	Gear Pump	Gear Pump
Fuel tank capacity (gal.)	19.0 gallons	19.0 gallons	19.0 gallons	19.0 gallons
Battery (AH)	60 AH	60 AH	60 AH	60 AH
Engine				
Type	1.6 Turbo Gasoline Direct Injection (GDI) engine	1.6 Turbo Gasoline Direct Injection (GDI) engine	1.6 Turbo Gasoline Direct Injection (GDI) engine	1.6 Turbo Gasoline Direct Injection (GDI) engine
Displacement (cc)	1,598 cc	1,598 cc	1,598 cc	1,598 cc
Bore x stroke (mm)	75.6 mm X 89.0 mm	75.6 mm X 89.0 mm	75.6 mm X 89.0 mm	75.6 mm X 89.0 mm
Compression ratio	10.5:1	10.5:1	10.5:1	10.5:1
Horsepower, Total Combined	241.7 hp	241.7 hp	241.7 hp	241.7 hp
Torque, Total Combined	270.5 lb.-ft.	270.5 lb.-ft.	270.5 lb.-ft.	270.5 lb.-ft.
Electrical System				
Hybrid Battery System type	Lithium-Ion Battery	Lithium-Ion Battery	Lithium-Ion Battery	Lithium-Ion Battery
Voltage (V)	270 V	270 V	270 V	270 V
Capacity (Ah)	5.5 Ah	5.5 Ah	5.5 Ah	5.5 Ah
Energy (kWh)	1.49 kWh	1.49 kWh	1.49 kWh	1.49 kWh
Power (kW)	64.0 kWh	64.0 kWh	64.0 kWh	64.0 kWh
Weight (kg)	42.5	42.5	42.5	42.5
Drivetrain				
Transmission Gear Ratios: 6-speed automatic transmission				
First	4.639:1	4.639:1	4.639:1	4.639:1
Second	2.826:1	2.826:1	2.826:1	2.826:1
Third	1.841:1	1.841:1	1.841:1	1.841:1
Fourth	1.386:1	1.386:1	1.386:1	1.386:1
Fifth	1.000:1	1.000:1	1.000:1	1.000:1
Sixth	0.772:1	0.772:1	0.772:1	0.772:1
Reverse	3.385:1	3.385:1	3.385:1	3.385:1
Final drive ratio	3.648:1	3.648:1	3.648:1	3.648:1
Exterior Dimensions				
Wheelbase (in.)	121.7 in.	121.7 in.	121.7 in.	121.7 in.
Length (in.)	203.0 in.	203.0 in.	203.0 in.	203.0 in.
Width, with side mirrors (in.)	89.2 in.	89.2 in.	89.2 in.	89.2 in.
Width, without side mirrors (in.)	78.5 in.	78.5 in.	78.5 in.	78.5 in.
Height, without roof rails (in.)	68.5 in.	68.5 in.	-	-
Height, with roof rails (in.)	-	-	69.9 in.	69.9 in.
Track, Front (in.)	68.9 in.	68.5 in.	68.5 in.	68.5 in.
Track, Rear (in.)	68.9 in.	68.5 in.	68.5 in.	68.5 in.
Overhang, front (in.)	36.8 in.	36.8 in.	36.8 in.	36.8 in.
Overhang, rear (in.)	44.5 in.	44.5 in.	44.5 in.	44.5 in.
Min. Ground Clearance (in.)	6.8 in.	6.8 in.	6.8 in.	6.8 in.
Approach angle (degrees)	15.4	15.4	15.4	15.4
Departure angle (degrees)	20.0	20.0	20.0	20.0
Interior Dimensions				
Head room, without sunroof				
Front (in.)	40.9 in.	40.9 in.	-	-
2nd row (in.)	39.5 in.	39.5 in.	-	-
3rd row (in.)	38.6 in.	38.6 in.	-	-
Head room, with sunroof				
Front (in.)	-	-	39.7 in.	39.7 in.
2nd row (in.)	-	-	37.6 in.	37.6 in.
3rd row (in.)	-	-	36.5 in.	36.5 in.
Legroom				
Front (in.)	41.1 in.	41.1 in.	41.1 in.	41.1 in.
2nd row (in.)	40.5 in.	40.5 in.	40.5 in.	40.5 in.
3rd row (in.)	35.6 in.	35.6 in.	35.6 in.	35.6 in.
Shoulder room				
Front (in.)	64.2 in.	64.2 in.	64.2 in.	64.2 in.
2nd row (in.)	63.2 in.	63.2 in.	63.2 in.	63.2 in.
3rd row (in.)	59.5 in.	59.5 in.	59.5 in.	59.5 in.
Hip room				
Front (in.)	59.8 in.	59.8 in.	59.8 in.	59.8 in.
2nd row (in.)	66.4 in.	66.4 in.	66.4 in.	66.4 in.
3rd row (in.)	50.4 in.	50.4 in.	50.4 in.	50.4 in.
Interior Cargo Volume (SAE), minimum (cu. ft.)	40.2 cu. ft.	40.2 cu. ft.	40.2 cu. ft.	40.2 cu. ft.
Interior Cargo Volume (SAE), maximum (cu. ft.)	145.1 cu. ft.	145.1 cu. ft.	145.1 cu. ft.	145.1 cu. ft.
Chassis/Suspension				
Front suspension	MacPherson strut	MacPherson strut	MacPherson strut	MacPherson strut
Rear suspension	Multi-link	Multi-link	Multi-link	Multi-link
Shock Absorber Type	Gas	Gas	Gas	Gas
Steering				
Type / Power Source	Column-Mounted Electric Power steering	Column-Mounted Electric Power steering	Column-Mounted Electric Power steering	Column-Mounted Electric Power steering
Steering ratio	14.23:1	14.23:1	14.23:1	14.23:1
Turns, lock-to-lock	3.0	3.0	3.0	3.0
Brakes				
Brake Type, front/rear	Ventilated disc / Solid disc	Ventilated disc / Solid disc	Ventilated disc / Solid disc	Ventilated disc / Solid disc
Size (in.), (front/rear)	12.8 in. / 12.8 in.	12.8 in. / 12.8 in.	12.8 in. / 12.8 in.	12.8 in. / 12.8 in.
Parking brake type	Electronic parking brake	Electronic parking brake	Electronic parking brake	Electronic parking brake
Booster Type	IEB	IEB	IEB	IEB
Booster ratio	TBD	TBD	TBD	TBD
Booster Diameter (in.)	IEB	IEB	IEB	IEB
Wheels/Tires				
Wheel Size (in.)	6.5J x 17 alloy	7.5J x 19 Alloy	7.5J x 19 Alloy	7.5J x 19 Alloy
Tire Size	P235/65R17	P235/55R19	P235/55R19	P235/55R19
Spare Tire	Tire Mobility Kit	Tire Mobility Kit	Tire Mobility Kit	Tire Mobility Kit
Curb Weight				
Curb weight, minimum, 7 passenger (lbs.)	4,967 lbs.	4,967 lbs.	4,967 lbs.	4,967 lbs.
Curb weight, minumim, 8 passenger (lbs.)	4,852 lbs.	4,852 lbs.	4,852 lbs.	4,852 lbs.
Roof Rack Load (lbs.)	165 lbs.	165 lbs.	165 lbs.	165 lbs.
***Excluding a driver's weight 165 lbs.**				
GVWR				
GVWR, 7 passenger (lbs.)	6,504 lbs.	6,504 lbs.	6,504 lbs.	6,504 lbs.
GVWR, 8 passenger (lbs.)	6,504 lbs.	6,504 lbs.	6,504 lbs.	6,504 lbs.
Towing Capacity				
Towing Capacity, braked (lbs.)	2,500 lbs.	2,500 lbs.	2,500 lbs.	2,500 lbs.
Towing Capacity, unbraked (lbs.)	1,000 lbs.	1,000 lbs.	1,000 lbs.	1,000 lbs.
Estimated Fuel Economy				
Automatic Transmission (est.)				
City	34	34	34	34
Highway	31	31	31	31
Combined	33	33	33	33