

BYD Sealion 05 EV



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Basic information

Model	Sea Lion 05 EV 430KM Intelligent Navigation Edition	Sea Lion 05 EV 520KM Intelligent Navigation Edition	Sea Lion 05 EV 520KM Flagship Intelligent Navigation Edition
Body level	Compact SUV	Compact SUV	Compact SUV
Length*width*height(mm)	4520*1860*1630	4520*1860*1630	4520*1860*1630
Energy Type	Pure Electric	Pure Electric	Pure Electric
CLTC pure electric cruising range (km)	430	520	520
Total motor power (kW)	140	160	160
Total torque of the motor (N·m)	330	330	330
Maximum speed (km/h)	180	180	180
0-100km/h acceleration(s)	7.6	7.2	7.2
Battery Type	Lithium iron phosphate battery	Lithium iron phosphate battery	Lithium iron phosphate battery
Battery capacity (kWh)	50.05	60.9	60.9
Fast charging time (h)	0.3	0.3	0.3
Fast charging capacity (%)	30-80	30-80	30-80

CAR BODY

Model	Sea Lion 05 EV 430KM Intelligent Navigation Edition	Sea Lion 05 EV 520KM Intelligent Navigation Edition	Sea Lion 05 EV 520KM Flagship Intelligent Navigation Edition
Length(mm)	4520	4520	4520
Width(mm)	1860	1860	1860
Height(mm)	1630	1630	1630
Wheelbase(mm)	2720	2720	2720
Front wheel track (mm)	1565	1565	1565
Rear wheelbase(mm)	1565	1565	1565
Curb weight(kg)	1670	1780	1780
Maximum full load mass (kg)	2125	2235	2235
Luggage compartment volume (L)	600	600	600

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Front trunk volume (L)	110	110	110
Number of doors	5	5	5
Number of seats	5	5	5
Approach angle (°)	20	20	20
Departure angle(°)	25	25	25

ELECTRIC MOTOR

Model	Sea Lion 05 EV 430KM Intelligent Navigation Edition	Sea Lion 05 EV 520KM Intelligent Navigation Edition	Sea Lion 05 EV 520KM Flagship Intelligent Navigation Edition
Total motor power (kW)	140	160	160
Total torque of the motor (N-m)	330	330	330
Maximum power of rear motor (kW)	140	160	160
Maximum torque of rear motor (N-m)	330	330	330
CLTC pure electric cruising range (km)	430	520	520
Battery capacity (kWh)	50.05	60.9	60.9
Power consumption per 100 km (kWh/100km)	12.5	12.7	12.7
Electric energy equivalent fuel consumption (L/100km)	1.45	1.47	1.47
Fast charging time (h)	0.3	0.3	0.3
Motor structure	Permanent Magnet	Permanent Magnet	Permanent Magnet
How the motor works	synchronous	synchronous	synchronous
Number of drive motors	Single motor	Single motor	Single motor
Motor layout	Post	Post	Post

Battery & Charging

Model	Sea Lion 05 EV 430KM Intelligent Navigation Edition	Sea Lion 05 EV 520KM Intelligent Navigation Edition	Sea Lion 05 EV 520KM Flagship Intelligent Navigation Edition
Battery Type	Lithium iron phosphate battery	Lithium iron phosphate battery	Lithium iron phosphate battery
Battery brand	FinDreams	FinDreams	FinDreams
Battery cooling method	Direct cooling	Direct cooling	Direct cooling
Fast charging function	support	support	support

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Fast charging capacity (%)	30-80	30-80	30-80
Energy recovery	•	•	•
Battery preheating	•	•	•
Discharge to the outside	•	•	•
Electric configuration			
Fast charging power (kW)	130	156	156

Chassis & Steering

Model	Sea Lion 05 EV 430KM Intelligent Navigation Edition	Sea Lion 05 EV 520KM Intelligent Navigation Edition	Sea Lion 05 EV 520KM Flagship Intelligent Navigation Edition
Drive type	Rear drive	Rear drive	Rear drive
Front suspension type	McPherson independent suspension	McPherson independent suspension	McPherson independent suspension
Rear suspension type	Five-link independent suspension	Five-link independent suspension	Five-link independent suspension
Power steering type	Electric power assist	Electric power assist	Electric power assist
Wheels/Brakes			
Front/rear brake type	Ventilated disc/disc	Ventilated disc/disc	Ventilated disc/disc
Parking brake type	Electronic parking brake	Electronic parking brake	Electronic parking brake
Front tire specifications	215/60 R17	215/60 R17	215/55 R18
Rear tire specifications	215/60 R17	215/60 R17	215/55 R18
Wheel material	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy

Active/Passive safety configuration

Model	Sea Lion 05 EV 430KM Intelligent Navigation Edition	Sea Lion 05 EV 520KM Intelligent Navigation Edition	Sea Lion 05 EV 520KM Flagship Intelligent Navigation Edition
ABS anti-lock braking system	•	•	•
Braking force distribution (EBD/CBC, etc.)	•	•	•
Brake assist (BA/EBA/BAS, etc.)	•	•	•
Traction control (ASR/TCS/TRC, etc.)	•	•	•
Vehicle stability control (ESC/ESP/DSC, etc.)	•	•	•
Active braking/safety systems	•	•	•

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Lane assist	•	•	•
Lane Keeping Assist System	•	•	•
Lane centering	•	•	•
Lane Departure Warning	•	•	•
Automatic Lane Change Assist	•	•	•
Automatic exit/entry of ramp	•	•	•
Road traffic sign recognition	•	•	•
Low speed warning	•	•	•
Fatigue driving tips	-	-	•
DOW door opening warning	•	•	•
Front airbags	•Driver's airbag	•Driver's airbag	•Driver's airbag
	•Passenger's airbag	•Passenger's airbag	•Passenger's airbag
	•Center airbag	•Center airbag	•Center airbag
	•Side airbag	•Side airbag	•Side airbag
	•Head airbag (curtain airbag)	•Head airbag (curtain airbag)	•Head airbag (curtain airbag)
Rear airbag	•Head airbag (air curtain)	•Head airbag (air curtain)	•Head airbag (air curtain)
Tire pressure detection device	Display	Display	Display
Seat belt not fastened reminder	Front row	Front row	•Full vehicle
ISOFIX child seat	•	•	•
Forward Collision Warning	•	•	•
Rear Collision Warning	•	•	•
Sentry Mode/Clairvoyance	•	•	•
Auxiliary/control configuration			
Model	Sea Lion 05 EV 430KM Intelligent Navigation Edition	Sea Lion 05 EV 520KM Intelligent Navigation Edition	Sea Lion 05 EV 520KM Flagship Intelligent Navigation Edition
Parking radar	•Before	•Before	•Before
	•Back	•Back	•Back

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Driving assistance images	●360-degree panoramic image	●360-degree panoramic image	●360-degree panoramic image
Reverse side warning system	•	•	•
Cruise control system	●Full-speed adaptive cruise control	●Full-speed adaptive cruise control	●Full-speed adaptive cruise control
Driving mode switch	●Sports	●Sports	●Sports
	●Economy	●Economy	●Economy
	●Standard/Comfort	●Standard/Comfort	●Standard/Comfort
	●Snow	●Snow	●Snow
Steep slope descent	•	•	•
Hill start assist	•	•	•
Automatic parking	•	•	•
	•	•	•
Remote control parking	•	•	•
Driving assistance level	L2	L2	L2
Driver Assistance Systems	DiPilot 100	DiPilot 100	DiPilot 100
Automated driving assistance section	●Highway section	●Highway section	●Highway section

External/anti-theft configuration

Model	Sea Lion 05 EV 430KM Intelligent Navigation Edition	Sea Lion 05 EV 520KM Intelligent Navigation Edition	Sea Lion 05 EV 520KM Flagship Intelligent Navigation Edition
Skylight	-	●The panoramic sunroof cannot be opened	●The panoramic sunroof cannot be opened
Roof rack	-	•	•
Active closed grille	-	-	•
Trunk opening method	-	-	●Electric
Key Type	●Remote control key	●Remote control key	●Remote control key
	●Bluetooth key	●Bluetooth key	●Bluetooth key
	●NFC/RFID key	●NFC/RFID key	●NFC/RFID key
Keyless entry	•	•	•
Keyless start system	•	•	•

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Remote start function	•	•	•
Central locking system in the car	•	•	•

Internal Configuration

Model	Sea Lion 05 EV 430KM Intelligent Navigation Edition	Sea Lion 05 EV 520KM Intelligent Navigation Edition	Sea Lion 05 EV 520KM Flagship Intelligent Navigation Edition
Steering wheel material	Leather	Leather	Leather
Steering wheel adjustment	•Manually adjustable up and down,front and back	•Manually adjustable up and down,front and back	•Manually adjustable up and down,front and back
Steering wheel functions	•Multi-function	•Multi-function	•Multi-function
Hands-off detection	•	•	•
Central armrest	•Before	•Before •Back	•Before •Back
Gear shifting	•Electronic hand-held gear shift	•Electronic hand-held gear shift	•Electronic hand-held gear shift
Sun visor makeup mirror	•	•	•
Full LCD instrument panel	•	•	•
LCD instrument size	8.8 inches	8.8 inches	8.8 inches
Built-in driving recorder	•	•	•
Mobile phone wireless charging function	Front row	Front row	Front row
ETC Device	•	•	•

Smart Hardware

Model	Sea Lion 05 EV 430KM Intelligent Navigation Edition	Sea Lion 05 EV 520KM Intelligent Navigation Edition	Sea Lion 05 EV 520KM Flagship Intelligent Navigation Edition
Assisted driving chip	Nvidia Orin-N	Nvidia Orin-N	Nvidia Orin-N
Total chip computing power	84 TOPS	84 TOPS	84 TOPS
Front perception camera	•Three eyes	•Three eyes	•Three eyes
Number of cameras	12	12	12
Number of cameras in the car	-	-	•1
Number of ultrasonic radars	12	12	12
Millimeter wave radar quantity	5	5	5

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Voice wake-up recognition by region	•Four regions	•Four regions	•Four regions
Seat			
Model	Sea Lion 05 EV 430KM Intelligent Navigation Edition	Sea Lion 05 EV 520KM Intelligent Navigation Edition	Sea Lion 05 EV 520KM Flagship Intelligent Navigation Edition
Seat Material	•Imitation leather	•Imitation leather	•Imitation leather
Front seat functions	-	•Heating	•Heating
		•Ventilation	•Ventilation
Electric seat adjustment	•Driver	•Driver	•Driver
		•Co-driver	•Co-driver
Main seat adjustment	•Front and rear adjustment	•Front and rear adjustment	•Front and rear adjustment
	•Backrest adjustment	•Backrest adjustment	•Backrest adjustment
	•Height adjustment (2-way)	•Height adjustment (2-way)	•Height adjustment (2-way)
Co-seat adjustment method	•Front and rear adjustment	•Front and rear adjustment	•Front and rear adjustment
	•Backrest adjustment	•Backrest adjustment	•Backrest adjustment
Second row seat adjustment	•Proportional down	•Proportional down	•Proportional down
Rear cup holder	-	•	•
Multimedia			
Model	Sea Lion 05 EV 430KM Intelligent Navigation Edition	Sea Lion 05 EV 520KM Intelligent Navigation Edition	Sea Lion 05 EV 520KM Flagship Intelligent Navigation Edition
Large color screen on the center console	•Touch LCD screen	•Touch LCD screen	•Touch LCD screen
Satellite navigation system	•	•	•
Navigation traffic information display	•	•	•
Map Brand	Baidu	Baidu	Baidu
Roadside assistance call	-	-	•
In-vehicle intelligent system	•DiLink	•DiLink	•DiLink
Car Intelligent Chip	•BYD D100	•BYD D100	•BYD D100
	•Door control	•Door control	•Door control
	•Window control	•Window control	•Window control

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Mobile APP remote function	●Charging management	●Charging management	●Charging management
	●Air conditioning control	●Air conditioning control	●Air conditioning control
	●Vehicle condition inquiry/diagnosis	●Vehicle condition inquiry/diagnosis	●Vehicle condition inquiry/diagnosis
	●Vehicle location/car search	●Vehicle location/car search	●Vehicle location/car search
Bluetooth/Car Phone	•	•	•
Number of audio speakers	8	8	8
Voice recognition control system	●Multimedia system	●Multimedia system	●Multimedia system
	●Navigation	●Navigation	●Navigation
	●Telephone	●Telephone	●Telephone
	●Air conditioning	●Air conditioning	●Air conditioning
Central control screen size	12.8 inches	12.8 inches	12.8 inches
Voice assistant wake-up word	●Hello, Xiaodi	●Hello, Xiaodi	●Hello, Xiaodi
Continuous speech recognition	•	•	•
See and Say	•	•	•
Facial Recognition	-	-	•
4G/5G Network	5G	5G	5G
Wi-Fi hotspots	•	•	•
Internet of Vehicles	•	•	•
OTA Update	•	•	•
Car KTV	•	•	•
Interface support	●USB port	●USB port	●USB port
	●Type-C port	●Type-C port	●Type-C port
Number of USB/Type-C ports	●2 in front row/2 in back row	●2 in front row/2 in back row	●2 in front row/2 in back row
USB/Type-C maximum charging power	60W	60W	60W
Mobile phone wireless charging power	50W	50W	50W
Power Support	-	12V power supply for luggage compartment	12V power supply for luggage compartment

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Vehicle system memory (GB)	●12	●12	●12
Vehicle system storage (GB)	●256	●256	●256
App Store	•	•	•

Lights

Model	Sea Lion 05 EV 430KM Intelligent Navigation Edition	Sea Lion 05 EV 520KM Intelligent Navigation Edition	Sea Lion 05 EV 520KM Flagship Intelligent Navigation Edition
Low beam	LED	LED	LED
High beam	LED	LED	LED
LED daytime running lights	•	•	•
Adaptive high and low beam	•	•	•
Adjustable headlights	•	•	•
Automatic headlights	•	•	•
Headlight Delay Off	•	•	•
Turn assist lighting	•	•	•
Interior ambient lighting	-	-	•

Glass/rearview mirror

Model	Sea Lion 05 EV 430KM Intelligent Navigation Edition	Sea Lion 05 EV 520KM Intelligent Navigation Edition	Sea Lion 05 EV 520KM Flagship Intelligent Navigation Edition
	●Before	●Before	●Before
Power windows	●Back	●Back	●Back
One-touch window lifting	●Full vehicle	●Full vehicle	●Full vehicle
Car window anti-pinch	•	•	•
Exterior mirrors	●Electric adjustment	●Electric adjustment	●Electric adjustment
	●Electric folding	●Electric folding	●Electric folding
	●Heating	●Heating	●Heating
	●Automatic folding when the car is locked	●Automatic folding when the car is locked	●Automatic folding when the car is locked
Interior rearview mirror	●Manual anti-glare	●Manual anti-glare	●Manual anti-glare
Glass function	-	-	Rear side privacy

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Sensor wipers	-	-	•
Rear wiper	•	•	•
Air conditioning/refrigerator			
Model	Sea Lion 05 EV 430KM Intelligent Navigation Edition	Sea Lion 05 EV 520KM Intelligent Navigation Edition	Sea Lion 05 EV 520KM Flagship Intelligent Navigation Edition
Air conditioning control method	Automatic control	Automatic control	Automatic control
Heat pump air conditioner	•	•	•
Rear air outlet	•	•	•
PM2.5 Filtration	•	•	•
Car Refrigerator	-	-	•

Standard • None -

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ELECTRIC VEHICLES