

BYD DOLPHIN

DESIGN ELECTRIC FWD AUTOMATIC



10.0

Clean Air Index 9.6

Energy Efficiency Index 9.9



Greenhouse Gas Index



	Laboratory Test	NMHC	NO _x	NH ₃	СО	PN	
10.0 /10	Cold Test						
10.0 /10	Warm Test						
10.0 /10	Highway						
10.0 /10	Cold Ambient Test						
	Road Test						
10.0 /10	On-Road Drive						
5.0 /5	On-Road Short Trip						
8.0/8	On-Road Heavy Load						
5.0 /5	On-Road Light Load						
2.0/2	Congestion						













Comments

With no tailpipe emissions, the electric BYD DOLPHIN naturally scores the full 10 points in the Clean Air part of the assessment.

9.6

Energy Efficiency Tests

	Laboratory Test	Energy		
10.0/10	Cold Test		→ 17.1 k	Wh/100 km
10.0/10	Warm Test		ightarrow 16.7 kg	Wh/100 km
9.4 /10	Highway		ightarrow 24.1 kV	Wh/100 km
9.2/10	Cold Ambient Test		→ 25.6 k	Wh/100 km
		Consumption	Driving I	Range
	Average	19.3 kWh/100 km	365 k	m
	Worst-case	25.6 kWh/100 km	268 k	m













Comments

The BYD DOLPHIN shows low consumption values in all tests. In the standard WLTC+ Lab Tests, the recorded values are around 17 kWh/100 km considering the charging losses. Very low energy demand is measured also in the Highway Test and in the -7°C Cold Ambient Test: 24.1 and 25.6 kWh/100 km, respectively. A noteworthy contributor to the good figures in cold conditions is the complex heating system, using a PTC heater, heat pump and waste heat from powertrain components. The On-Road Drive was performed at around 6°C and the DOLPHIN needed about 20 kWh/100 km, leading to a range of around 340 km.

	Greenhouse gases	CO ₂	N_20	CH₄	
10.0 /10	Cold Test				
10.0 /10	Warm Test				
10.0 /10	Highway				
9.7 /10	Cold Ambient Test				













Comments

The Greenhouse Gas (GHG) Index is based on a Well-to-Wheel+ approach, meaning that the GHG emissions related to the supply of energy are added to those of the tailpipe. Following this approach, the estimated GHG emissions of the fully electric DOLPHIN originate only from the upstream processes of electricity supply – ca. 47 g CO₂-eq./km in the Warm Lab Test and reaching 72 g CO₂-eq./km in the Cold Ambient Test. Thanks to its efficient electric powertrain and heating concept and the relatively low GHG of EU electricity production, the DOLPHIN closely misses the top result but scores 9.9/10.

Our Verdict

One of the newest offerings of the Chinese brand BYD is the all-electric BYD DOLPHIN. A hatchback with a maximum power of 150 kW and a declared usable battery capacity of 60.5 kWh. This allows the vehicle to have an average driving range (measured by Green NCAP procedures) of 365 km. The car demonstrates its potential in short urban trips with a driving range of around 480 km. The vehicle is equipped with the same heating and air-conditioning system as its stablemate, the ATTO 3, recently tested by Green NCAP. At the battery capacity test the vehicle was charged up to 100% SOC with a 11 kW charging power in 6h and 15 minutes. The recharged energy of 68.4 kWh and the usable battery energy of 58.3 kWh gives a grid-to-battery output efficiency of 85%. By improving the performance in the charging process, the DOLPHIN would obtain even better results, considering that the average energy consumption of ca. 17 kWh/100 km in the standard WLTC+ test is creditable enough and close to the officially declared value. Overall, BYD DOLPHIN gets an Average Score of 98% and very well deserved 5 Green Stars, thanks to its high efficiency.

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Specification

Tested Car

Publication Date 02 2024

Vehicle Class Small Family Car **Tyres** 205/50 R17

Emissions Class

Mass 1.658 kg Engine Size

System Power/Torque 150 kW/310 Nm Declared CO₂

Declared Battery Capacity 60.5 kWh

Overall 427 km

City 559 km

Declared Consumption

Heating Concept
Waste heat & PTC & Heat pump



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