Hyundai IONIQ 6

FIRST EDITION ELECTRIC AWD AUTOMATIC

2024 ★★★★★ 98%

10.0 /10
Clean Air Index

9.6 /10
Energy Efficiency Index

9.8 /10
Greenhouse Gas Index

10.0 /10 Clean Air Tests

	Laboratory Test	NMHC	NO_x	NH_3	CO	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	●	●	●	●	●

● n.a. ● good ● adequate ● marginal ● weak ● poor

Comments

With no tailpipe emissions, the electric Hyundai IONIQ 6 naturally scores the full 10 points in the Clean Air part of the assessment.

9.6 /10 Energy Efficiency Tests

	Laboratory Test	Energy		
10.0/10	Cold Test		→	16.7 kWh/100 km
10.0/10	Warm Test		→	16.3 kWh/100 km
9.5/10	Highway		→	23.5 kWh/100 km
8.9/10	Cold Ambient Test		→	27.6 kWh/100 km

	Consumption	Driving Range
Average	18.8 kWh/100 km	461 km
Worst-case	27.6 kWh/100 km	306 km

n.a. good adequate marginal weak poor

Comments

The Hyundai IONIQ 6 impresses with low consumption results, not only in the standard WLTC+ Lab Tests but also in the Highway Test and in the -7°C Cold Ambient Test. Here, the vehicle needs only 23.5 and 27.6 kWh/100 km, respectively. These values are among the best recorded by Green NCAP so far. The On-Road Drive was performed at chilly 8°C and on a wet road and yet the IONIQ 6 recorded a consumption of just 17.2 kWh/100 km, which gives it a range of 491 km.

9.8 /10 Greenhouse Gases Tests

	Greenhouse gases	CO_2	N_2O	CH_4
10.0/10	Cold Test			
10.0/10	Warm Test			
10.0/10	Highway			
9.4/10	Cold Ambient Test			

n.a. good adequate marginal weak poor

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. The vehicle's production is not yet included in the assessment due to the implicit limitations of generic data about global supply chains. Since the IONIQ 6 is a purely electric car, its assessed GHG emissions originate only from the upstream processes of electricity supply – ca. 46-78 g CO_2-eq./km. Thanks to its low energy consumption and the relatively low GHG of EU electricity production, the Hyundai scores a very high 9.8/10.

Our Verdict

The Hyundai IONIQ 6 is a mid-range electric car based on the Hyundai Electric-Global Modular Platform (E-GMP). It is a 4-door saloon with 5 seats with an empty mass of 2.078 kg and a declared usable battery capacity of 74 kWh. The 239 kW powertrain with 2 motors is the same as the Kia EV6 AWD. Although the vehicle is heavy, the good efficiency values can be attributed to an aerodynamic body design, efficient powertrain and well managed heating system, using a combination of a PTC-heater, heat pump and waste heat utilisation. In combination with the low consumption figures, the large battery allows for ranges of around 500 km under real world conditions and 360 km in dynamic Highway driving. As a worst case, a range of 306 km is calculated based on the consumption measured in a single short drive at -7°C without intermediate charging and with fast cabin heat-up and a comfortable cabin temperature. In reality, a single long drive would exceed this range as the cabin temperature would need to be warmed from -7°C only once. Using 11 kW AC charging, Green NCAP determined an available battery capacity of 75 kWh, while 84.5 kWh needs to come from the electricity grid for a full recharge. This results in a creditable but fairly typical grid-to-battery output efficiency of 89%. Overall, the IONIQ 6 shines with an Average Score of 98% and gets the well-deserved 5 Green Stars.

Disclaimer

Specification

Tested Car
KMHM541C1PA01xxxx

Publication Date	Vehicle Class	Tyres	Emissions Class
02 2024	Large Family Car	225/55 R18	Euro 6 AX

Mass	Engine Size	System Power/Torque	Declared CO_2
2,078 kg	n.a.	239 kW/605 Nm	n.a.

Declared Battery Capacity	Declared Driving Range	Declared Consumption
74.0 kWh	Overall 583 km City 745 km	15.1 kWh/100 km

Heating Concept
Waste heat & PTC & Heat pump

green ncap

Think before you print