



2021

FIAT 500e

87 kW electric 4x2 automatic



10.0 
/10

Clean Air
Index

10.0 
/10

Energy Efficiency
Index

10.0 
/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 Cold Ambient Test	●	●	●	●	●
10.0/10 Highway	●	●	●	●	●



Road Test

10.0/10 On-Road Drive	●	●	●	●	●
8.0/8 On-Road Heavy Load	●	●	●	●	●
5.0/5 On-Road Light Load	●	●	●	●	●
5.0/5 On-Road Short Trip	●	●	●	●	●
2.0/2 Congestion	●	●	●	●	●



Robustness



n.a.



good



adequate



marginal



weak



poor

Comments



The FIAT 500e is a battery electric vehicle and emits no pollutants at the tailpipe. Accordingly, it scores maximum points in this part of the assessment, with a Clean Air Index of 10.

Energy Efficiency Tests



Laboratory Test

Energy

10.0/10	Cold Test		→	19.3 kWh/100 km
10.0/10	Warm Test		→	17.8 kWh/100 km
10.0/10	Cold Ambient Test		→	25.8 kWh/100 km
10.0/10	Highway		→	25.5 kWh/100 km

Consumption

Driving Range

Average	20.9 kWh/100 km	230 km
Worst-case	25.8 kWh/100 km	182 km



n.a.



good



adequate



marginal
















weak



poor

Comments

Average fuel consumption is 20.9 kWh/100 km and worst-case consumption is 25.8 kWh/100 km, in the cold ambient test. Both values are below the point at which points are lost and a maximum score of 10 is achieved for Energy Efficiency.

	<u>Greenhouse gases</u>	CO ₂	N ₂ O	CH ₄
7.0/7	Cold Test			
7.0/7	Warm Test			
7.0/7	Cold Ambient Test			
7.0/7	Highway			



n.a.



good



adequate



marginal



weak



poor

Comments

Battery electric vehicles emit no gases at the tailpipe so the 500e scores maximum points in this part of the assessment.

Our Verdict

First shown at the 2009 Geneva Motor Show, the FIAT 500e has been a high-selling supermini ever since. The pure electric version tested here has a 87 kW, 220 Nm permanent-magnet, three-phase synchronous-drive electric motor and a 42.2 kWh battery. Like all pure electric vehicles, there are no tailpipe emissions so the car scores maximum points in the Clean Air Index and the Greenhouse Gas Index. Energy efficiency is also excellent compared with combustion-engined cars but unexceptional compared to other electric vehicles. Nevertheless, the 500e fully deserves its maximum 5 star rating.

Disclaimer

Publication Date 07 2021	Tested Car ZFAEFAC46MX00xxx	Emissions Class Euro AX	Tyres 195/55R16 91V
Mass 1,313 kg	Engine Size n.a.	Engine Power/Torque 87 kW/220 Nm	Published CO ₂ n.a.
	Declared Battery Capacity 42.2 kWh	Published Driving Range 319 km	



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