



EL**PRIX**

TWICE A YEAR SINCE 2020



JANUARY

JUNE

TWO DAYS - TWO TESTS



RANGE

CHARGING





- Around 25 PEVs in every test.
- Most cars are tested both in summer and winter.
- Around 150 cars have been tested so far.

WHY?



Educate consumers about EVs real world range, consumption and charge time.



Function as the consumer's watchdog and challenge the car industry to give more transparent information regarding EVS properties such as real-world range, charge time, and net/gross battery capacity.



Use our results as a basis for political pressure on topics such as car taxes, building charging infrastructure, and charging price structures.

Focus on public awareness



CCS current limitation

- This winter, five cars needed more than 500 A to reach their maximum charge speed. Four of these cars had a battery voltage around 400 V.
- In the specification for CCS2, maximum current is 500 A.
- Most of the charging infrastructure in Europa is limited to 500 A.



Hongqi EHS7



NIO EL8



Tesla Model 3



Polestar 3



Lotus Emeya



CCS current limitation

- Car manufacturers talk about maximum charge speed in kW.
- Customers do not understand the limitations.
- No standard way to communicate charging.
- We think the best indication of charging speed is time in minutes from 10 % to 80 % SoC.



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Lotus Emeya

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Battery preheating before charging

- In cold weather, the battery needs preheating before charging.
- Driving the car for several hours is often insufficient to achieve optimal battery temperature.
- Most cars do not indicate the battery temperature.
- Most cars do not indicate that preheating is activated.

Battery preheating before charging

Suggestions for a better customer experience:

- Indication that preheating is, or will be, activated before charging.
- Indication of maximum charging speed with current battery temperature or when planned charging starts.
- Indication of how optimal the battery temperature is for charging or will be at a planned charging. This can be done using a color scale or other easy-to-read methods.





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