Expressive appearance: the new Porsche 99X Electric

24/10/2024 Porsche has presented its Formula E car for the next two seasons: the new Porsche 99X Electric. The all-electric open-wheel racer complies with the regulations for the updated third generation of Formula E cars, called GEN3 Evo, and features all-round improved Porsche in-house developments.

The new Porsche 99X Electric made its debut online on 24 October, in a film with Bruno Correia, the Formula E safety car driver and GEN3 Evo development driver. The key technical innovations comprise activation of the drive on the front wheels, higher grip tyres, and a modified front wing. World Champion Pascal Wehrlein and António Félix da Costa, last season's driver with the most wins, retain their positions as the drivers for the works TAG Heuer Porsche Formula E Team. The two Andretti Formula E customer cars will have former World Champion Jake Dennis and the new Porsche works driver Nico Müller at the wheel.

Refined Porsche in-house developments

The evolution model inherits Porsche's most successful formula sports car to date: In its GEN3 version, the Porsche 99X Electric won the drivers' world championship two years in a row – with Dennis in 2022/2023, and with Wehrlein in 2023/2024. The concept remains the same: Per the regulations, the available energy is restricted. This forces the teams and their drivers to optimise the efficiency of the cars across all areas. Components developed by the manufacturer were allowed to be changed for the GEN3 Evo. Porsche's development department in Weissach took the opportunity to exploit the optimisation potential identified over the past two seasons – particularly in terms of drive. The homologation of the manufacturer components is valid for two seasons once again. The fourth car generation, GEN4, is set to be introduced for Season 13 (2026/2027).

New features – GEN3 Evo

The key technical innovations of the GEN3 Evo relate to the standardised hardware of all teams and manufacturers taking part.

From now on, front-wheel drive may be engaged in the qualifying duels, during race starts, and during Attack Mode. This gives the cars **temporary all-wheel drive**, enabling the Porsche 99X Electric to accelerate to 100 km/h in around two seconds. Making the engagement of front-wheel drive as efficient as possible represents another technical challenge, with the lessons learned also benefitting Porsche's road cars.

Higher performance tyres from exclusive supplier Hankook will help the Formula E cars reach even higher speeds in the new season. To reduce the footprint, each car will still only have two sets of tyres available per race weekend (three sets for double headers). The tyre profile makes the tyres suitable for both dry and wet conditions.

The evolution model is primarily recognisable by its **modified front wing**. The new form should make it more stable, enabling it to withstand contact better. Further modifications to the cladding were made behind the roll bar and in front of the rear wheels.

Colours based on the product spearhead

Purple Sky Metallic and Shade Green Metallic – these are the new colours on the cladding of the Porsche 99X Electric. These were the colours that Porsche used to present the new spearhead of its electric sports cars for the road at the start of the year: the Taycan Turbo GT, the most powerful production car the brand has ever built. The shades of purple and green replace the traditional combination of black, white and red. They symbolise the technology transfer from motorsport to production. The colour change also represents electrification and Porsche's pioneering spirit: The aim

being to also visually express the company's innovative strength in the progressive Formula E.

Next up

The TAG Heuer Porsche Formula E Team and Andretti Formula E will take part in Formula E's official pre-season testing in Valencia, Spain (4 to 7 November). In addition to Wehrlein and da Costa, the two female drivers Gabriela Jílková and Marta García from Czechia and Spain will be taking the wheel of the two works Porsches in Valencia.

Quotes from the world premiere

Thomas Laudenbach, Vice President Porsche Motorsport: "We build future sports cars, so we also want our appearance to be progressive. The young and innovative Formula E is an excellent platform for promoting our electric production sports cars. The preparation for the season thus far fills me with confidence that not only do we look good, but we can also build on the successes of last season. The bar has been set high: With Pascal as the World Champion, we are at the pinnacle of Porsche's formula racing history to date."

Florian Modlinger, Director Factory Motorsport Formula E: "The biggest development task was and is the implementation of the temporary all-wheel drive. Since the hardware was already available for GEN3, a huge amount of work has gone into aligning the software. On the one hand we want to maximise acceleration and cornering speeds with the all-wheel drive. On the other hand, the goal is to not consume too much energy and to keep the car balance to the liking of the drivers. A task that is also relevant for our sports cars for the road."

Pascal Wehrlein, Porsche works driver (#1): "The new Porsche 99X Electric is a very cool car. I love the colours so much that I designed my helmet the same way. It also goes without saying that I am proud to now have number 1 on the nose of my car. I want to defend my title and the preparations for the new season are going according to plan."

António Félix da Costa, Porsche works driver (#13): "We are excited to see where we are at. The all-wheel drive, the new tyres, and the comprehensive overhaul of our own components may shake things up a bit, even though there aren't any major changes to the regulations. I'm optimistic and am pleased that we will be lining up in São Paulo again at the beginning of December. Hopefully the fans will love our new colours."

Technical data – Porsche 99X Electric (GEN3 Evo)

Drive power

- Normal operation: 300 kW (408 hp)

▪ Attack Mode, qualifying duels: 350 kW (476 hp)

Power transmission
▪ Normal operation: rear
▪ Attack Mode, qualifying duels, race starts: all-wheel drive

Acceleration
▪ 0–100 km/h: approx. 2.0 s

Energy recovery
▪ Up to 600 kW recuperation power (brake energy recovery)
▪ Approx. 50 % of the drive energy per race comes from brake energy recovery

Brakes
▪ Regenerative braking system: up to 250 kW electric braking power on the front axle, up to 350 kW on the rear axle
▪ Additional deceleration through friction brakes on the front axle ("Brake by Wire" system)
▪ Front brake disc outer diameter: 258 mm
▪ Friction brakes on the rear axle only active in an emergency (if recuperation fails)

Tyres
▪ Profiled Hankook iON Race for dry and wet conditions
▪ 2 sets per race weekend and per vehicle (3 for double headers)

Lithium-ion battery
▪ Supplied standard component
▪ Usable storage capacity: 38.5 kWh
▪ Weight: 285 kg

CCS charging system (Combined Charging System)
▪ Designed for extremely fast charging with up to 600 kW charging power

Weight and dimensions
▪ Weight: 862 kg including driver
▪ Length: 5016 mm, width: 1700 mm, height: 1023 mm
▪ Wheelbase: 2970 mm
▪ Ground clearance: up to 65 mm
▪ Front track: 1440 mm
▪ Rear track: 1380 mm

Key in-house developments

Pulse inverter, electric motor, gearbox, differential, drive shafts and other drive components on the rear axle as well as cooling, support and suspension components on the rear axle, operating software

Key standard components

Chassis and body, wheels and tyres, drive, cooling and suspension components on the front axle, accumulator

MEDIA ENQUIRIES

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Consumption data

Taycan Turbo GT (WLTP)*: Electrical consumption combined: 21.2 – 20.5 kWh/100 km; CO_2 emissions combined: 0 g/km; CO_2 class: A

Taycan Turbo GT with Weissach package (WLTP)*: Electrical consumption combined: 24.8 – 20.6 kWh/100 km; CO_2 emissions combined: 0 g/km; CO_2 class: A

*Further information on the official fuel consumption and the official specific CO_2 emissions of new passenger cars can be found in the "Leitfaden über den Kraftstoffverbrauch, die CO_2-Emissionen und den Stromverbrauch neuer Personenkraftwagen" (Fuel Consumption, CO_2Emissions and Electricity Consumption Guide for New Passenger Cars), which is available free of charge at all sales outlets and from DAT (Deutsche Automobil Treuhand GmbH, Helmuth-Hirth-Str. 1, 73760 Ostfildern-Scharnhausen, www.dat.de).

Video

Image Sublines

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