



## Porsche 718 Cayman GT4 e-Performance reveals the potential of Mission R

**16/05/2022** Porsche has begun testing the technology components of the Mission R with the 718 Cayman GT4 e-Performance. At the 2021 IAA Mobility in Munich, the conceptual study outlined the vision of a fully-electric GT racing car for customer motorsport in the future. Now, the innovative electric drive concept of the Mission R is demonstrating its potential on national and international racetracks.

The Porsche 718 Cayman GT4 e-Performance serves as a test vehicle. Like the Mission R, the all-wheel-drive racer uses the chassis of the proven 718 Cayman GT4 Clubsport model. The entire electric motor and battery technology also comes from the IAA conceptual study, which in qualification mode translates to a maximum output of 735 kW (1,000 PS) and more. In simulated racing, a steady 450 kW (612 PS) is available for 30 minutes, i.e. the duration of a Carrera Cup race. In terms of lap times and top speed, the 718 Cayman GT4 e-Performance is on par with the performance of the current 992-generation 911 GT3 Cup.

“With the Mission R, we’ve shown how Porsche envisages sustainable customer motor racing in the future. The 718 Cayman GT4 e-Performance now demonstrates that this vision works impressively on the racetrack,” states Matthias Scholz, GT racing vehicle project manager. “We’re very excited about the response because a one-make cup with electric racing cars would be an important addition to our existing customer racing programme.”

In 2030, Porsche aims to be CO2 neutral across the entire value chain and life cycle of new cars sold. By then, the proportion of all new vehicles featuring all-electric drive should be more than 80 per cent.

Like with the Mission R, the fully-electric drive train of the 718 Cayman GT4 e-Performance is based on a permanently excited synchronous machine (PESM) on the front and rear axles. Together, they turn the racing car into an all-wheel-drive and can deliver a peak output of up to 800 kW (1,088 PS). The direct oil cooling of the e-motors and battery pack developed by Porsche counteracts thermally induced derating. “The integration of oil cooling has significantly impacted the vehicle concept,” explains Björn Förster, GT4 e-Performance project manager. “With experts in the fields of aerodynamics and thermodynamics as well as high-voltage and bodywork specialists, the development team created an architecture to tap the full potential of the battery cells for the first time, since there is no thermal derating. In this way, the power output in racing mode remains constant for half an hour.” Thanks to 900-volt technology, the state of charge (SoC) of the battery at full charging capacity jumps from 5 to 80 per cent in about 15 minutes.

Under the direction of designer Grant Larson, a team from Porsche Style came up with the shape of the 718 Cayman GT4 e-Performance. The racing car is 14 centimetres wider than a 718 Cayman GT4 Clubsport. About 6,000 parts were designed from scratch. The body is made of natural fibre composite materials, among others, with the production intended to generate fewer emissions than the production of comparable synthetic materials. Recycled carbon fibres are also used for testing purposes. Compared to the 718 Cayman GT4 Clubsport, the flared fenders allow more room for the wider 18-inch racing tyres from Michelin. Renewable materials make up a particularly high proportion of the tyres.

## The GT4 e-Performance Tour #race2zero

The Porsche 718 Cayman GT4 e-Performance celebrates its premiere at the Goodwood Festival of Speed from 23 to 26 June 2022. At the famous motorsport festival in southern England, the all-electric concept car will take part in the ca. 1.9-kilometre hill-climb event. Its second outing is on 20 August 2022 at the Porsche factory in Leipzig on the occasion of the factory’s 20th anniversary. The facility boasts a 3.7-kilometre circuit that features famous sections of world-famous racetracks. The two 718 Cayman GT4 e-Performance demo vehicles will travel through various European countries before heading to North America in early 2023. The world tour concludes in the Asia-Pacific region, where the all-electric racing car will tour until mid-2024. In line with the sustainability strategy of the entire “race2zero” project, transportation has been logistically optimised and will be done entirely by ship, train and truck.

“The 718 Cayman GT4 e-Performance blazes a trail to Porsche customer racing with electrically-powered racing cars. As a first step, we will unveil this concept to our global partners,” says Oliver Schwab, Project Manager Sales of the 718 Cayman GT4 e-Performance. “With drivers, teams, organisers, authorities and other interested parties, we’re also gathering ideas for Porsche racing formats in the future.”

## GT4 e-Performance – the partners

The 718 Cayman GT4 e-Performance heads off on its world tour with support from seven partners. All companies involved use the tour as a platform to further advance the topic of sustainability with Porsche Motorsport. DB Schenker is new to the project. The world’s leading provider of global logistics services contributes sustainable transport services, among other things. The long-standing partner ExxonMobil is involved through its Mobil brand via joint developments in the field of coolants and lubricants for the racing car. TAG Heuer, the Swiss manufacturer of luxury watches, supports this and other Porsche Motorsport projects as the timing partner. As a long-established technology partner of Porsche Motorsport, Michelin develops particularly sustainable racing tyres for the 718 Cayman GT4 e-Performance. The fashion company Hugo Boss is the official team outfitter. Fireproof clothing for drivers and mechanics is provided by the sports lifestyle brand Puma with the crew’s tools provided by the official supplier Hazet.

# MEDIA ENQUIRIES



### Holger Eckhardt

Spokesperson Motorsports LMDh, GT, Customer Racing  
+49 (0) 170 / 911 4982  
holger.eckhardt@porsche.de

### Image Sublines

Path: Porsche 718 Cayman GT4 ePerformance reveals the potential of Mission R/Images/img\_1.jpg  
Title: Matthias Scholz, Director GT Racecars, 2022, Porsche AG  
Subline: Matthias Scholz, GT racing vehicle project manager

Path: Porsche 718 Cayman GT4 ePerformance reveals the potential of Mission R/Images/img\_2.jpg  
Title: Oliver Schwab, Project Manager Sales Porsche 718 Cayman GT4 e-Performance, 2022, Porsche AG  
Subline: Oliver Schwab, Project Manager Sales of the 718 Cayman GT4 e-Performance

## Link Collection

Link to this article

<https://newsroom.porsche.com/en/2022/motorsports/porsche-718-cayman-gt4-epformance-mission-r-iaa-conceptual-study-test-valencia-spain-28359.html>

Media Package

<https://pmdb.porsche.de/newsroomzips/478922eb-285e-4fa3-ae0d-9f45dc7edd5a.zip>