

## Mercedes-AMG brings F1 hybrid tech from race track to road

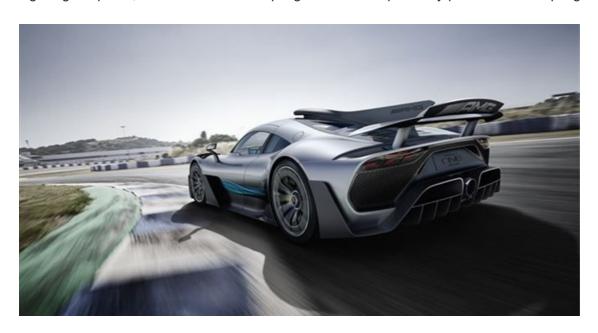
The Mercedes-AMG Project One premiered at the International Motor Show (IAA) in Frankfurt/Main. According to the car manufacturer, the two-seater supersports show car brings the latest fully-fledged Formula 1 hybrid technology from the race track to the road.



The car is said to produce over 740kW and reach top speeds beyond 350km/h.

The high-performance plug-in hybrid drive system of the Mercedes-AMG Project One comes directly from Formula 1. It consists of a highly integrated and intelligently networked unit comprising one hybrid, turbocharged combustion engine with a total of four electric motors. One has been integrated into the turbocharger, another has been installed directly on the combustion engine with a link to the crankcase and the two remaining motors drive the front wheels.

The 1.6-litre V6 hybrid petrol engine with direct injection and electrically assisted single turbocharging comes directly from the Mercedes-AMG Petronas Formula 1 racing car. The four overhead camshafts are driven by spur gears. To achieve high engine speeds, the mechanical valve springs have been replaced by pneumatic valve springs.



The vehicle is mid-engined (ahead of the rear axle) and it can easily reach speeds of 11,000rpm, which is currently unique for a road-going vehicle. However, for higher longevity and the use of commercially available Super Plus petrol instead of racing fuel, it remains significantly below the F1 engine speed limit.

## Technical data at a glance

Rear-wheel drive 1.6-litre V6 with direct

injection, four valves per cylinder, four overhead camshafts and electrically boosted single turbocharger, electric motor connected to

the crankshaft

Displacement 1,600 cc

Rear-wheel drive output > 500kW

Front-wheel drive output 2 x 120kW

System output > 740kW (> 1,000 hp)

Electric range 25km

Drive system Variable AMG Performance

4MATIC+ all-wheel drive with

hybrid-drive rear axle, electrically driven front axle and torque vectoring

Transmission Automated AMG

SPEEDSHIFT 8-speed manual transmission

Acceleration 0-200 km/h < 6 secs.

Top speed > 350km/h