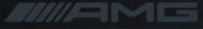


The all new **Electric Drivetrain** from Mercedes-AMG





Denis Blanus

Development High Voltage Battery HP.EB



UNIQUE DRIVETRAIN CONCEPT

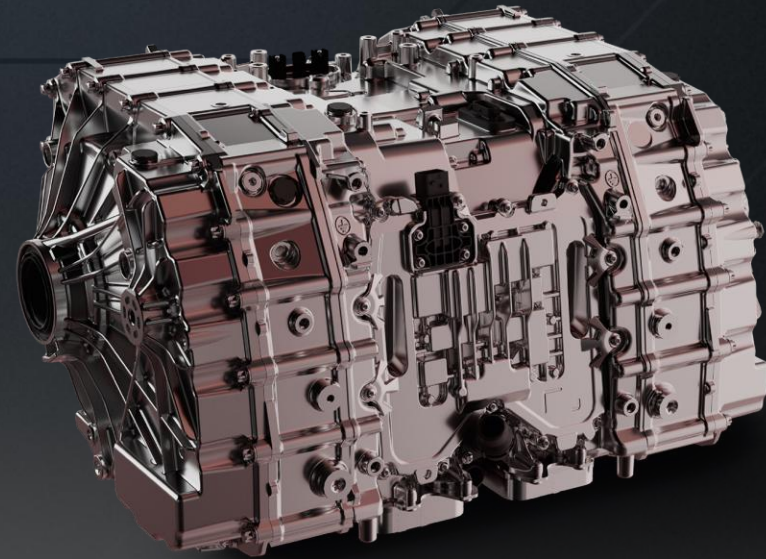
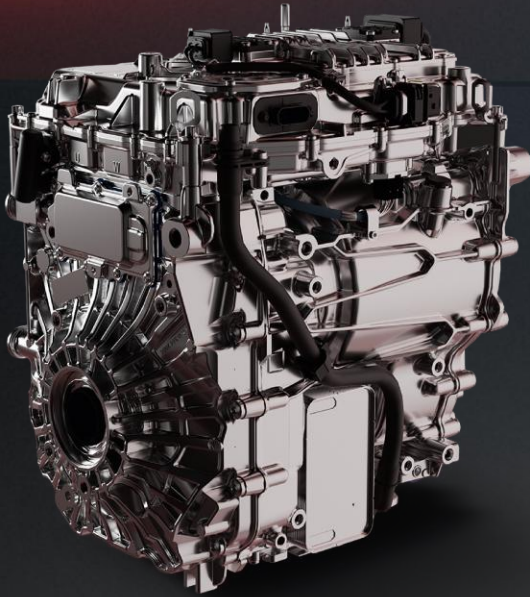
FOR SPRINT PERFORMANCE OVER MARATHON DISTANCES





HIGH PERFORMANCE ELECTRIC DRIVE UNITS

MERCEDES-AMG GT 4-DOOR COUPÉ



Peak Power



UP TO 860 kW

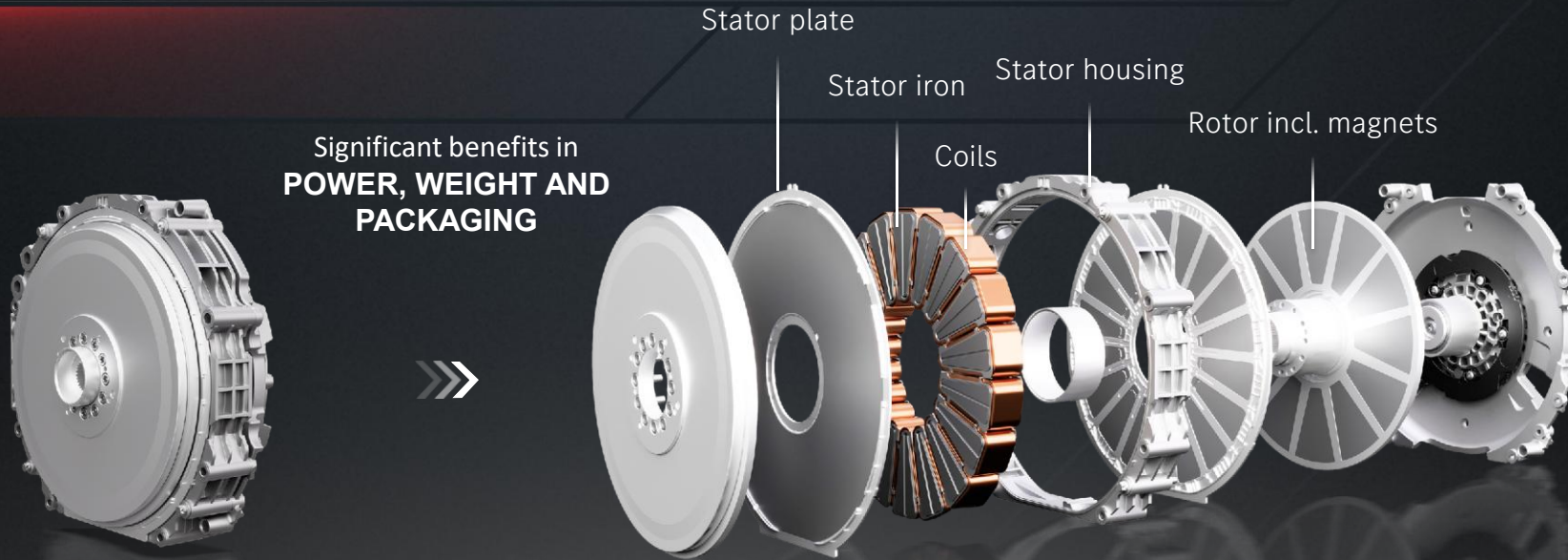


Continuous Power

UP TO 530 kW



AXIAL FLUX MOTOR



LENGTH



Reduction by

67%



compared with a radial flux motor

WEIGHT



Reduction by

67%



compared with a radial flux motor

PERFORMANCE

Power density

Radial

x3

Axial

Torque density

Radial

x2

Axial





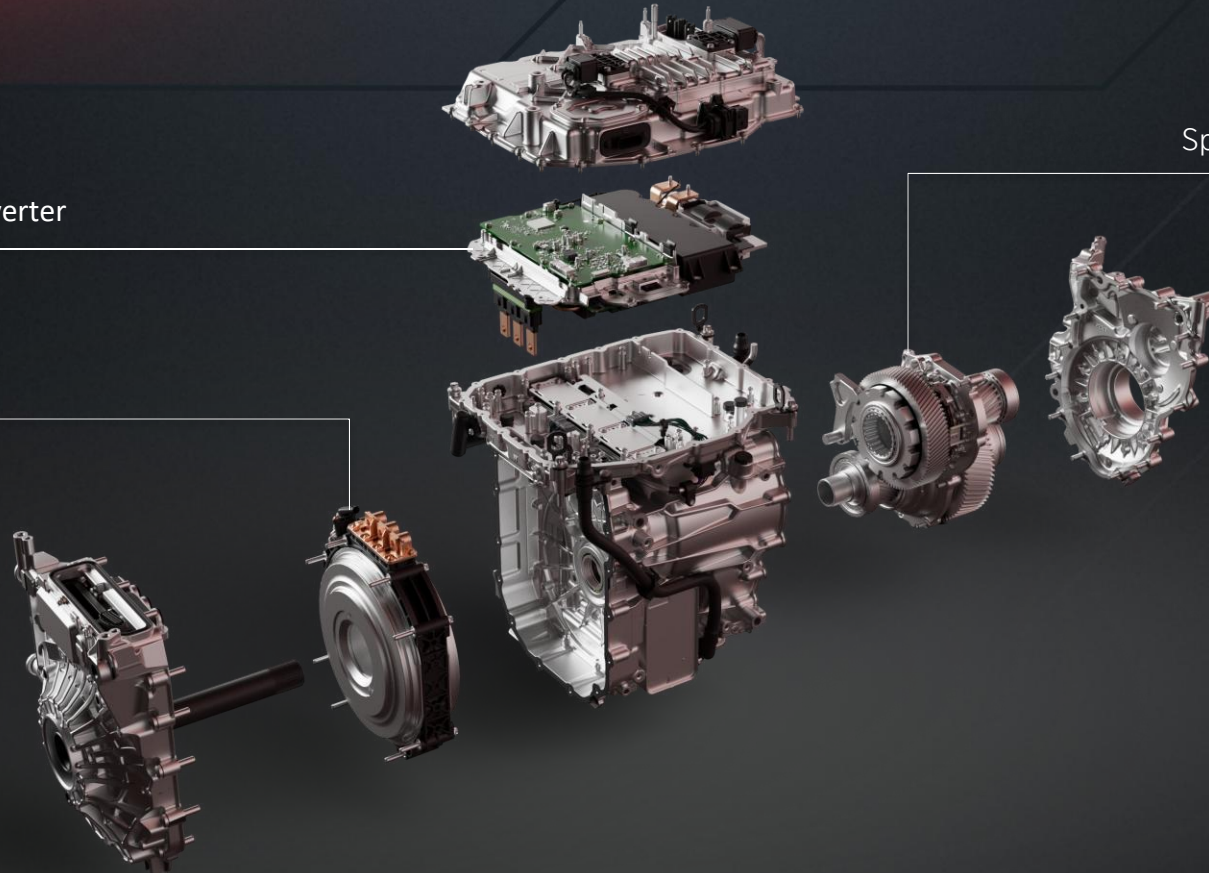
HIGH PERFORMANCE ELECTRIC DRIVE UNIT

FRONT SINGLE

Silicon-carbide (SiC) DC/AC inverter

Axial Flux Motor (AFM)

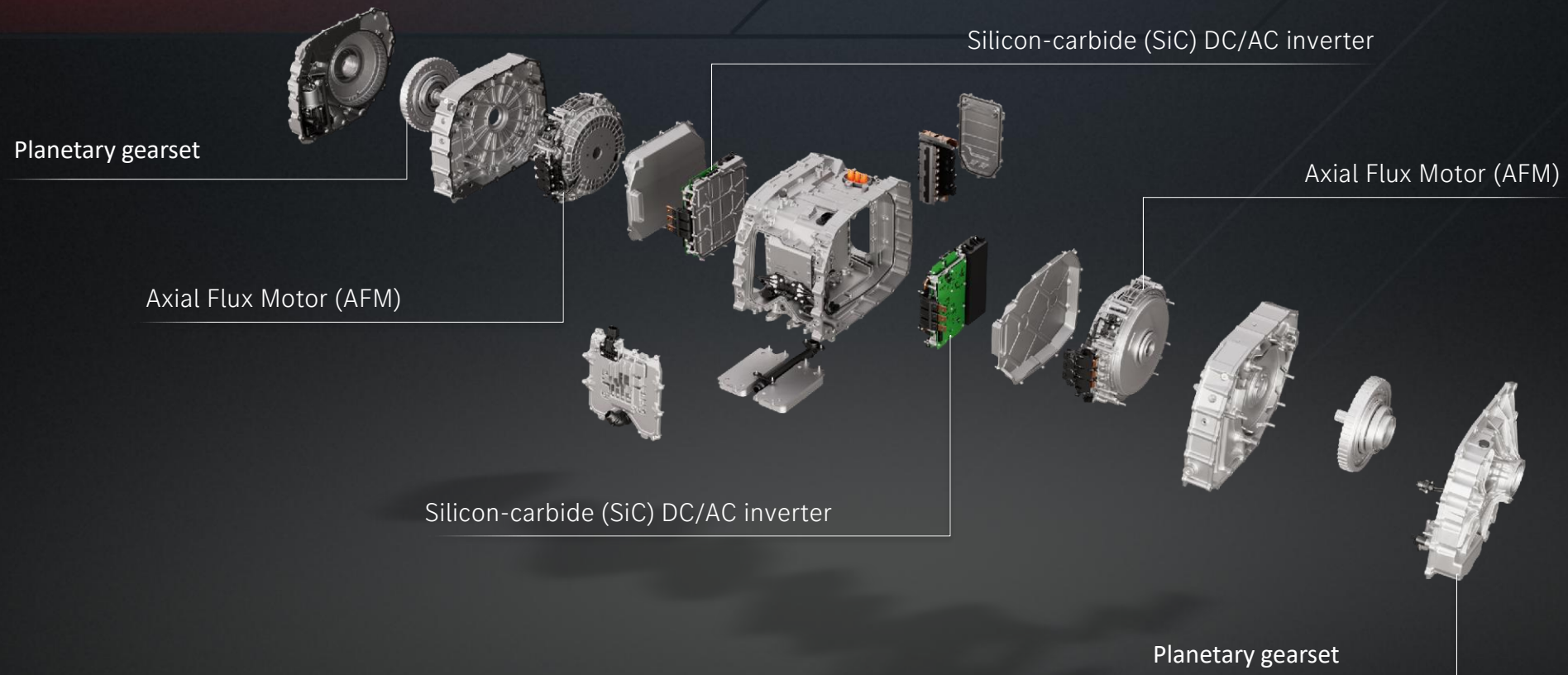
Spur-gear transmission incl. DCU





HIGH PERFORMANCE ELECTRIC DRIVE UNIT

REAR TWIN



IN THE NEW **AMG GT 4-DOOR**,
CHARGING FEELS LIKE
REFUELLING

Thanks to its directly cooled battery, this AMG can not only deliver maximum performance for longer but also take in maximum energy at the charging station for longer. The car can easily drive from Stuttgart to Lake Como in one go. And while you spend 10 minutes drinking an Espresso there, the GT has already charged up to 460 km (depending on the station) for the return journey during that time.



MERCEDES AMG

GT 4-DOOR



CHARGING PERFORMANCE*

600 kW

RANGE UP TO**

700 km

RANGE AFTER 10 MINUTES OF CHARGING

460 km

* at Peak
** according to WLTP



‘ WE HAVE NOW IMPRESSIVELY
DEMONSTRATED HOW SUPERIOR THESE
TECHNOLOGIES ARE. ’

Michael Schiebe
CEO MERCEDES-AMG



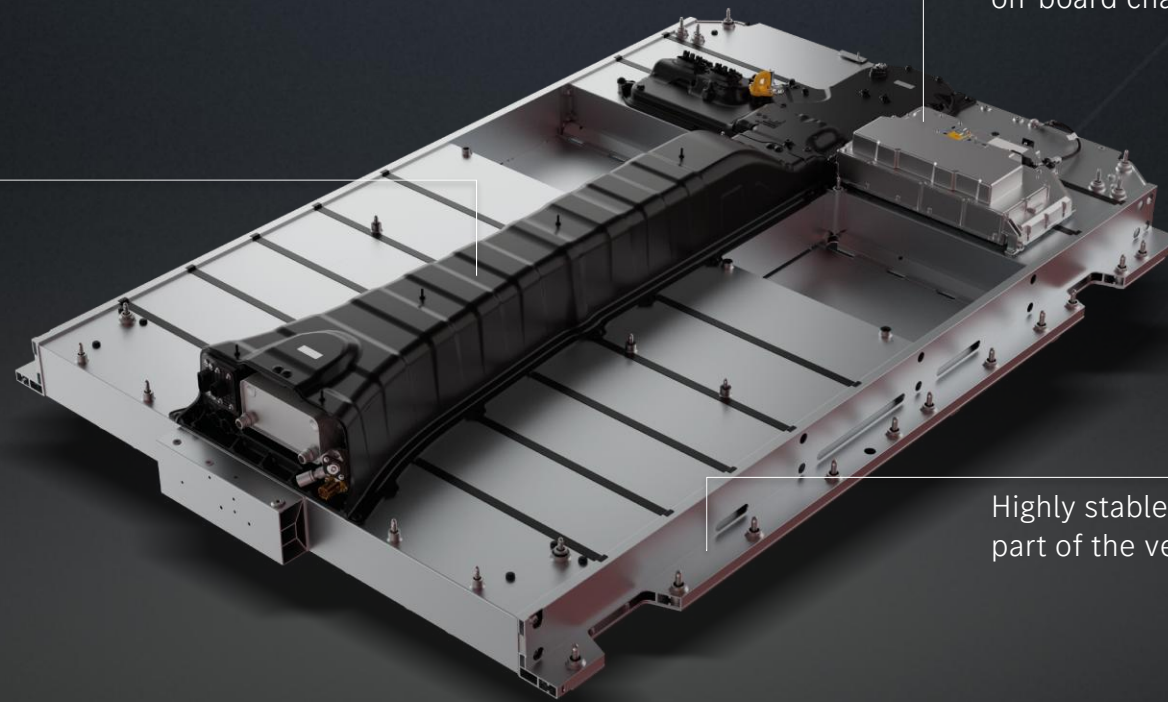
Within just 8 days, the **Concept AMG GT XX**
achieved **25** record-breaking milestones



800 VOLT HIGH PERFORMANCE BATTERY

FORMULA 1 INSPIRED

800V system



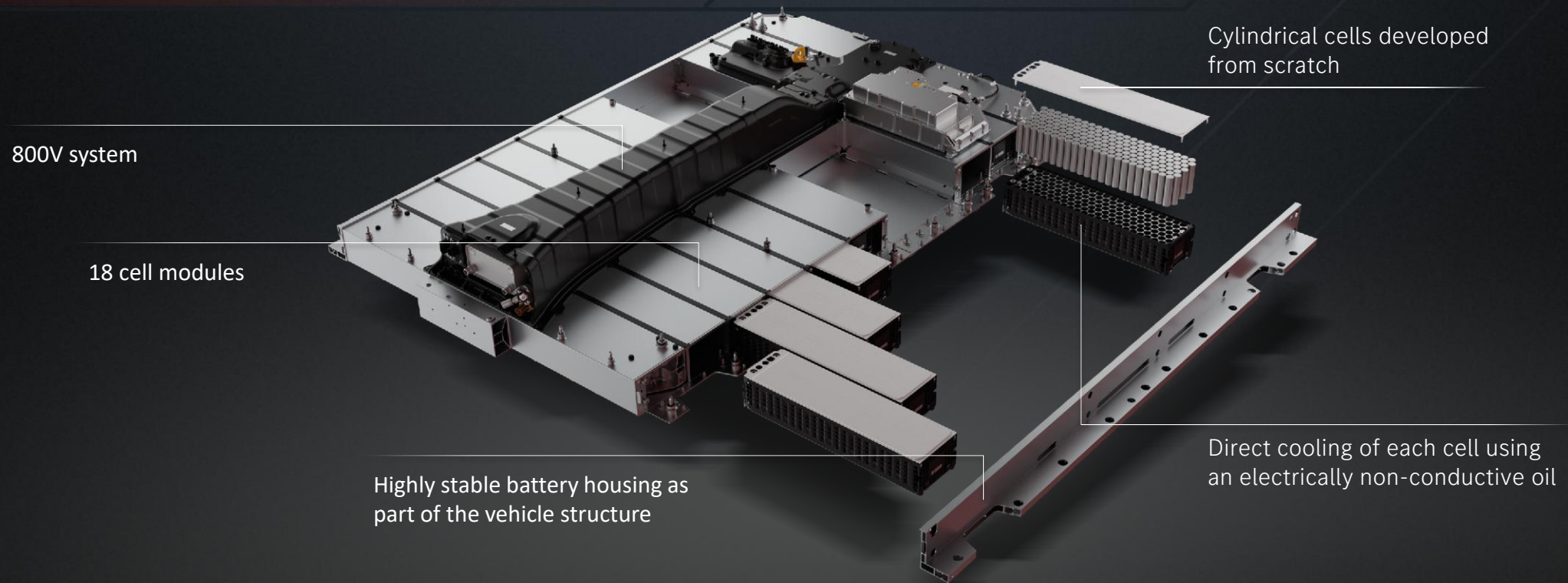
Onebox with integrated DC/DC converter and on-board charger

Highly stable battery housing as part of the vehicle structure

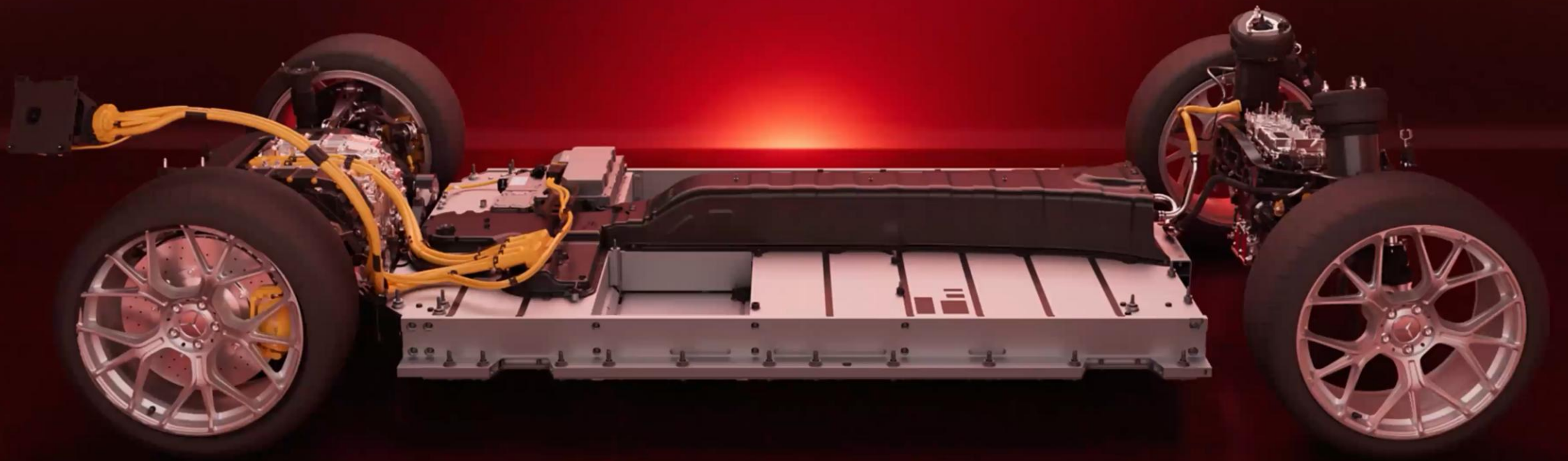


HIGH PERFORMANCE BATTERY

WITH DIRECTLY COOLED CYLINDRICAL CELLS

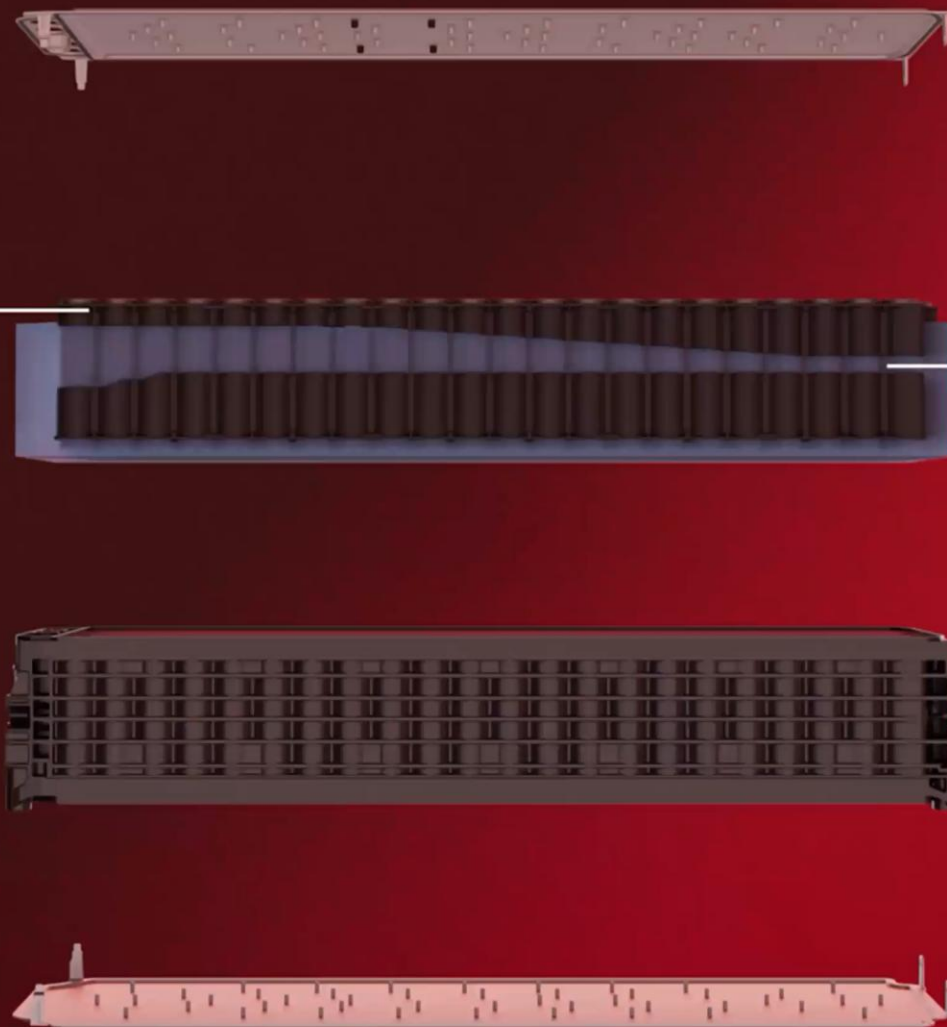


AMG



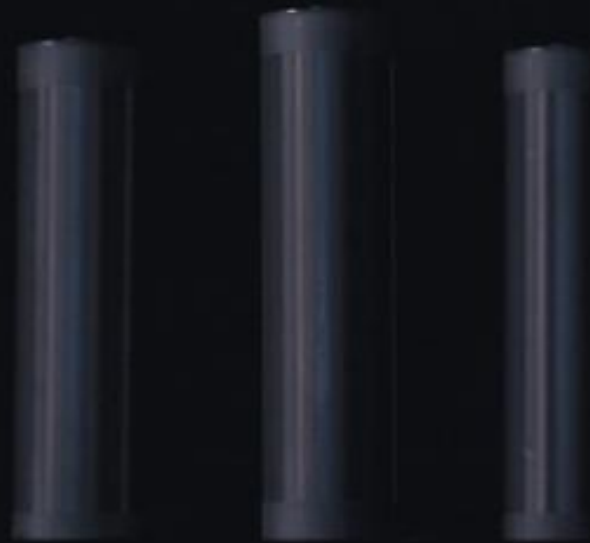
Cylindrical cells
developed from scratch

Intelligent direct cooling of each cell
with an electrically non-conductive oil





CELL PROJECT 26105



BORN IN AFFALTERBACH



Charging

200 kW



GT 4-DOOR COUPÉ

~210 km in 10 min
10–80% in 23 min

350 kW



GT 4-DOOR COUPÉ

~335 km in 10 min
10–80% in 16 min

600 kW

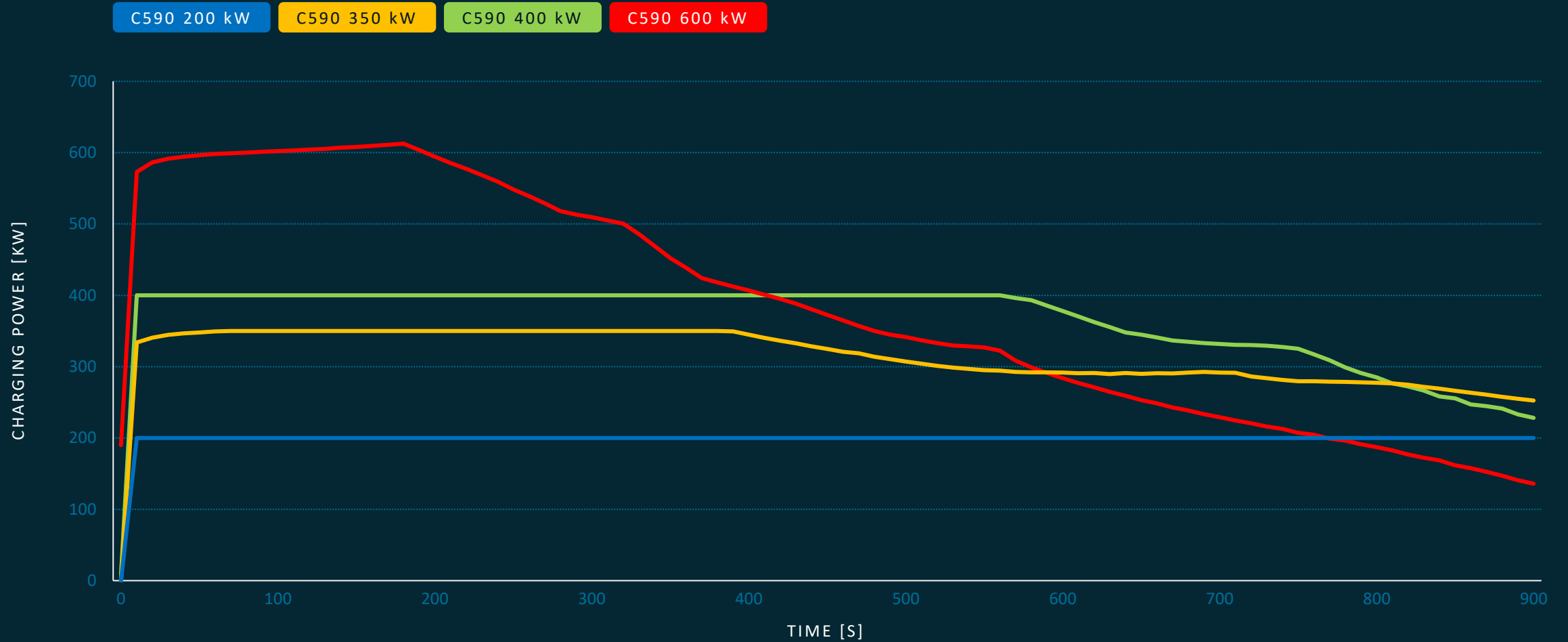


GT 4-DOOR COUPÉ

~470 km in 10 min
10–80% in 11 min



Charging

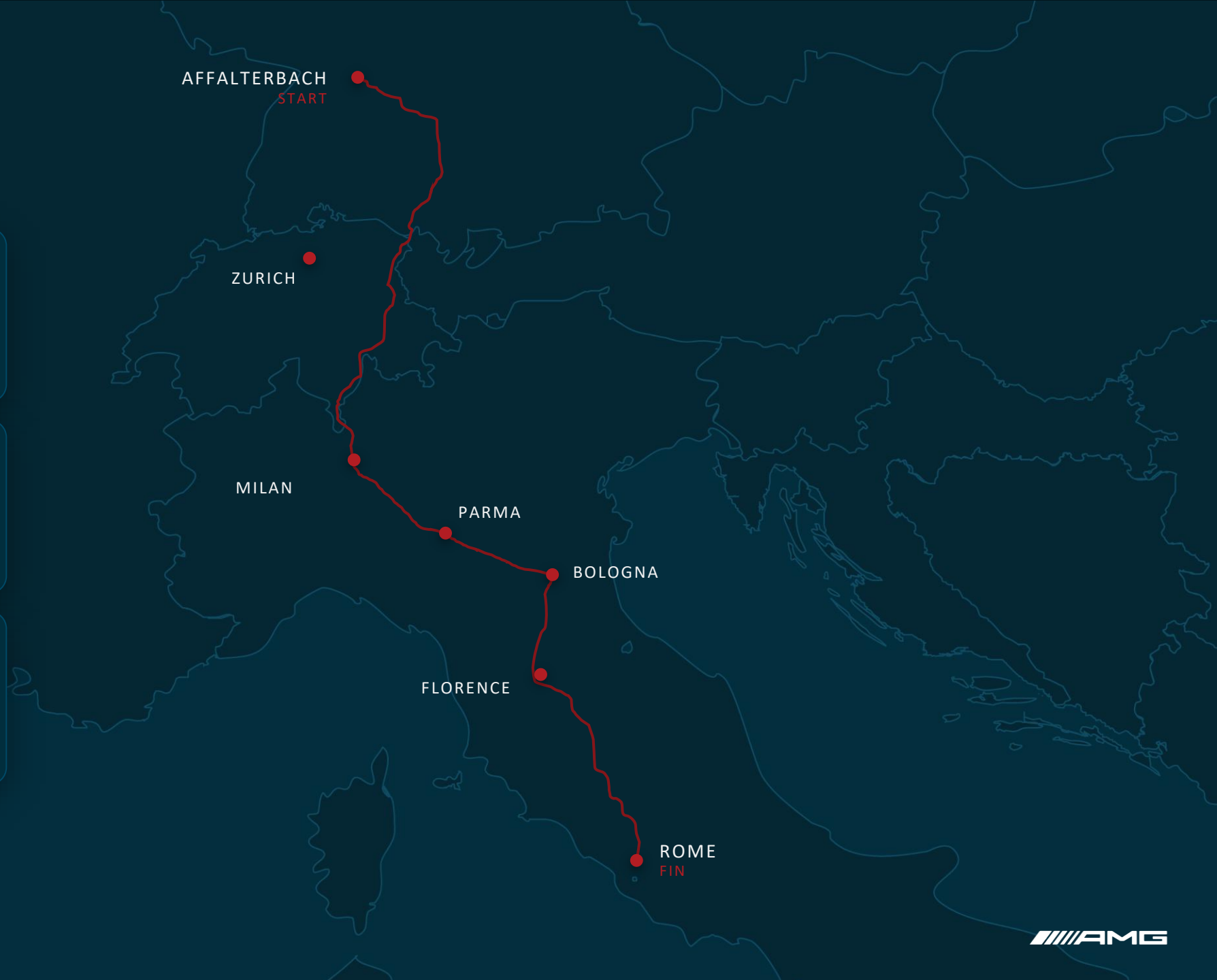


ONE-STOP RANGE

100 – 10%

15 MIN
CHARGING

RANGE TO
10%



ONE-STOP RANGE

100-10%

477 KM

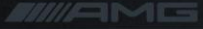
15 MIN CHARGING

95% SOC

RANGE TO 10%

450 KM





THANK YOU