



Press Information

23 February 2017

Mercedes-AMG F1 W08 EQ Power+ Technical Specification

Chassis

Monocoque:	Moulded carbon fibre and honeycomb composite structure
Bodywork:	Carbon fibre composite including engine cover, sidepods, floor, nose, front wing and rear wing
Cockpit:	Removable driver's seat made of anatomically formed carbon composite, OMP six-point driver safety harness, HANS system
Safety Structures:	Cockpit survival cell incorporating impact-resistant construction and penetration panels, front impact structure, prescribed side impact structures, integrated rear impact structure, front and rear roll structures
Front Suspension:	Carbon fibre wishbone and pushrod-activated torsion springs and rockers
Rear Suspension:	Carbon fibre wishbone and pullrod-activated torsion springs and rockers
Wheels:	OZ forged magnesium
Tyres:	Pirelli
Brake System:	Carbon Industrie Carbon / Carbon discs and pads with rear brake-by-wire
Brake Calipers:	Brembo
Steering:	Power-assisted rack and pinion
Steering Wheel:	Carbon fibre construction
Electronics:	FIA standard ECU and FIA homologated electronic and electrical system
Instrumentation:	McLaren Electronic Systems (MES)
Fuel System:	ATL Kevlar-reinforced rubber bladder
Lubricants & Fluids:	PETRONAS Tutela

Transmission

Gearbox:	Eight speed forward, one reverse unit with carbon fibre maincase
Gear Selection:	Sequential, semi-automatic, hydraulic activation
Clutch:	Carbon plate

Dimensions

Overall Length:	Over 5000mm
Overall Width:	2000mm



Overall Height: 950mm
Overall Weight: 728kg

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Power Unit Specification

Type: Mercedes-AMG F1 M08 EQ Power+
Minimum Weight: 145 kg
Power Unit Perimeter: Internal Combustion Engine (ICE)
Motor Generator Unit - Kinetic (MGU-K)
Motor Generator Unit - Heat (MGU-H)
Turbocharger (TC)
Energy Store (ES)
Control Electronics (CE)
Power Unit Allocation: Four Power Units per driver per season

Internal Combustion Engine (ICE)

Capacity: 1.6 litres
Cylinders: Six
Bank Angle: 90
No of Valves: 24
Max rpm ICE: 15,000 rpm
Max Fuel Flow Rate: 100 kg/hour (above 10,500 rpm)
Fuel Injection: High-pressure direct injection (max 500 bar, one injector/cylinder)
Pressure Charging: Single-stage compressor and exhaust turbine on a common shaft
Max rpm Exhaust Turbine: 125,000 rpm

Energy Recovery System (ERS)

Architecture: Integrated Hybrid energy recovery via electrical Motor Generator Units
Energy Store: Lithium-Ion battery solution of minimum 20 kg regulation weight
Max energy storage/lap: 4 MJ
Max rpm MGU-K: 50,000 rpm
Max power MGU-K: 120 kW (161 hp)
Max energy recovery/lap MGU-K: 2 MJ



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Max energy deployment/lap MGU-K: 4 MJ (33.3 s at full power)
Max rpm MGU-H: 125,000 rpm
Max power MGU-H: Unlimited
Max energy recovery/lap MGU-H: Unlimited
Max energy deployment/lap MGU-H: Unlimited

Fuel & Lubricants

Fuel: PETRONAS Primax
Lubricants: PETRONAS Syntium