



## Technical data Audi R18 (2016)

As of: March 2016

Model	Audi R18 (2016)
<b>Vehicle</b>	
Vehicle type	Le Mans prototype (LMP1)
Monocoque	Composite fiber construction of carbon fibers with aluminum honeycomb core and Zylon side panels, tested acc. to the strict FIA crash and safety standards, front and rear CFRP crashers
Battery for electrical system	Lithium-ion battery
<b>Engine</b>	
Engine	Audi TDI, V6 engine with turbocharger, 120-degree cylinder angle, 4 valves per cylinder, 1 Garrett VTG turbocharger, TDI diesel direct injection, aluminum cylinder crankcase, fully stressed
Cubic capacity	4,000 cc
Power output	Over 378 kW (514 hp)
Torque	Over 850 Nm
<b>Hybrid system</b>	
Type of storage system	Electrochemical due to lithium-ion battery, over 2 MJ of usable storage capacity
Motor Generator Unit (MGU)	One MGU at the front axle, integrated limited slip differential. Low-temperature cooling circuit for MGU, integrated power electronics and energy storage. MGU output: over 350 kW for recuperation/boost (300 kW for boost at Le Mans)
Output class	ERS 6 MJ (valid for Le Mans race track)
<b>Drivetrain/transmission</b>	
Type of drive	Rear-wheel drive, traction control (ASR), e-tron quattro four-wheel drive in hybrid mode
Clutch	CFRP clutch
Transmission	Sequential 6-speed racing transmission
Differential	Limited slip differential rear
Transmission housing	CFRP with titanium inserts
Drive shafts	Constant-velocity tripod-type plunge joints
<b>Suspension/steering/brakes</b>	
Steering	Servo-assisted rack and pinion steering
Suspension	Front and rear independent suspension on upper and lower wishbones, pushrod system at the front axle and pullrod system at the rear axle with adjustable dampers, two wheel tethers per wheel
Brakes	Hydraulic dual-circuit braking system, monoblock light-alloy brake calipers, ventilated carbon fiber brake discs front and rear
Wheels	OZ magnesium forged wheels
Tires	Michelin Radial, Front: 31/71-18, rear: 31/71-18
<b>Weight/dimensions</b>	
Length	4,650 mm
Width	1,900 mm
Height	1,050 mm
Minimum weight	875 kg
Fuel cell capacity	49.9 liters