



Technical Data

Model	Audi RS Q e-tron (Dakar 2023)
Vehicle	
Vehicle type	Rally Raid Vehicle (Category T1U – alternative drivetrains)
Chassis	Steel tube frame in combination with structural components in carbon/Zylon fiber composite
Drive train/transmission	
Type	All-wheel drive with electrically driven axles
E-drivetrains on the axles	One Audi MGU05 from Formula E per axle
Output	Total system power under 263 kW
Transmission	One single-speed racing gearbox per axle, including limited-slip differential (software-based), virtual center differential with freely selectable torque distribution on front and rear axle
Battery	High Voltage Battery System (HVBS), approx. 370 kg (wet), lithium-ion cells, usable battery capacity approx. 52 kWh, charging with max. 220 kW while driven through energy converter
Energy converter	2.0 liter four-cylinder turbo engine from the DTM coupled via a shaft with a generator (Audi MGU05 from Formula E) Speed- and torque-controlled generator operation at the energy converter's maximum efficiency with intelligent battery charging and energy management. Energy measurement through Fuel Flow Meter
Electrics	
On-board voltages	12V/48V/800V
System control units	Bosch ECU MS 7.4, Bosch VCU MS 50.4P
Power management	Motec PDM32
Data Logger	4 x Bosch C 80
Driver/Co-driver Display	2 x Bosch DDU 10
Lights	LED head lights and tail lights
Suspension/steering/brake	
Steering	Electro-hydraulically assisted rack and pinion steering system
Suspension	Independent front and rear suspension, double wishbone suspension, spring/damper unit, adjustable gas pressure shock absorbers
Brakes/Recuperation	Hydraulic dual-circuit braking system with one “brake-by-wire” system, each on the front and rear axles with brake force distribution freely selectable by the driver and electronically controlled recuperation performance, Light-alloy brake calipers, internally ventilated steel brake discs front and rear
Wheels	Forged aluminum rims, front/rear: 8.5J x 17 inch
Tires	BF Goodrich front/rear 37x12,5 R17
Dimensions/weight	
Length	4,670 mm
Width	2,300 mm
Height	1,950 mm
Minimum weight	2,100 kg without drivers
Fuel tank capacity	max. 340 liters
Performance	
0–100 kph	less than 4.5 seconds (on loose surface)
Top speed	Limited to max. 170 km/h