

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 288 kW
Transmission	One single-speed racing gearbox per axle, including limited-slip differential. Software-based virtual center differential
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
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
Performance	
0-100 kph	less than 4.5 seconds (on loose surface)
Top speed	Limited to max. 170 km/h