## **Technical Data – Audi A8 4.2 TDI quattro tiptronic (283 kW)**Program for Germany Status: August 2013

Engine / electronics	
Engine type	V8 engine with 90° V angle
Valve gear / number of valves per cylinder	Chain drive, roller cam followers with hydraulic valve play compensation / 4
Displacement in cc / bore x stroke in mm / compression	4134 / 83.0 x 95.5 / 16.5
Max. power output in kW (hp) / at rpm	283 (385) / 3750
Max. torque in Nm (Ib-ft) / at rpm	850 (626.93) / 2000 - 2750
Mixture preparation	Common rail injection system (piezo injectors, max. 2000 bar), direct injection eight-hole nozzles, VTG twin turbochargers with intercooler; swirl and tangential intake ports, swirl flaps
Exhaust emission control	Two oxidizing catalytic converters and two diesel particulate filters with SCR coating
Emissions class	EU 6
Alternator in A / battery in A/Ah	190 (water-cooled) / 580/105
Start-stop system	Switches the engine off if the vehicle is stationary and the brake is engaged.
Drivetrain / transmission	
Drive type	quattro permanent all-wheel drive with self-locking center differential, electronic stabilization control (ESC)
Clutch	Hydraulic torque converter with lock-up clutch
Transmission type	8-speed tiptronic with DSP and sport program
Gear ratio in 1st gear / 2nd gear	4.714 / 3.143
Gear ratio in 3rd gear / 4th gear	2.106 / 1.667
Gear ratio in 5th gear / 6th gear	1.285 / 1.000
Gear ratio in 7th gear / 8th gear	0.839 / 0.667 3.317 / 2.381
Reverse gear / final drive ratio	3.317 / 2.381
Suspension / steering / brakes Front suspension	Five-link front suspension, upper and lower wishbones, tubular anti-roll bar, ai suspension
Rear suspension	Trapezoidal-link suspension with wishbones, tubular anti-roll bar, air
Steering / steering ratio / turning circle in meters (D102) (feet)	Electromechanical steering with speed-dependent power assistance / 15.1 / 12.3 (40.35)
Brake system	Dual-circuit brake system with diagonal split with ESC/ABS/EBD, brake booster; hydraulic brake assist; front and rear disk brakes: ventilated; electromechanical parking brake
Wheels / tires	Cast aluminum wheels 8.0Jx18 / 235/55R18 104 Y
Performance / consumption / acoustics	
Top speed in km/h (mph)	250 (155.34) (governed)
Acceleration, 0-100 km/h (0-62.14 mph) in sec	4.7
Fuel / octane value	Diesel, according to DIN EN 590 /
Fuel consumption: city / highway / combined in I/100 km (US mpg)	9.4 (25.02) / 6.1 (38.56) / 7.4 (31.79)
CO <sub>2</sub> mass emission in g/km (g/mile)	247 (397.51) / 161 (259.10) / 194 (312.21)
CO in g/km (g/mile) / particle value	0.32 (0.51) / 0.00033
HC / NOx in g/km (g/mile)  Idling / drive-past exterior noise level in dB (A)	- / 0.066 (0.11) 70 / 72
	10/12
Servicing / guarantee (Germany) Service inspection after max. km (miles)	According to service indicator up to 30,000 km (18,641.14) (max. 2 years)
Vehicle / paint / rust perforation guarantee	2 years with unlimited mileage / 3 years / 12 years
Insurance classification in Germany: third party / fully comprehensive / part-comprehensive	22 / 29 / 30
Weights / loads	
Unladen weight according to EU (excluding driver) / (including driver) / gross	2040 (4497.43) / 2115 (4662.78) / 2705 (5963.50)
weight limit in kg (pounds)	
Axle load limit at front / rear in kg (pounds)	1400 (3086.47) / 1435 (3163.63)
	1400 (3086.47) / 1435 (3163.63) 2300 (5070.63) / 2300 (5070.63) / 750 (1653.47)
Axle load limit at front / rear in kg (pounds)  Trailer load limit on 8% / 12% gradient, braked / unbraked in kg (pounds)  Roof load limit / permissible nose weight in kg (pounds)	, , , ,
Axle load limit at front / rear in kg (pounds)  Trailer load limit on 8% / 12% gradient, braked / unbraked in kg (pounds)  Roof load limit / permissible nose weight in kg (pounds)  Capacities	2300 (5070.63) / 2300 (5070.63) / 750 (1653.47) 100 (220.46) / 95 (209.44)
Axle load limit at front / rear in kg (pounds)  Trailer load limit on 8% / 12% gradient, braked / unbraked in kg (pounds)  Roof load limit / permissible nose weight in kg (pounds)  Capacities  Cooling system capacity (incl. heating) in liters (US gallons)	2300 (5070.63) / 2300 (5070.63) / 750 (1653.47) 100 (220.46) / 95 (209.44) 11.7 (3.09)
Axle load limit at front / rear in kg (pounds)  Trailer load limit on 8% / 12% gradient, braked / unbraked in kg (pounds)  Roof load limit / permissible nose weight in kg (pounds)  Capacities  Cooling system capacity (incl. heating) in liters (US gallons)  Engine oil capacity (including filter) in liters (US quarts)	2300 (5070.63) / 2300 (5070.63) / 750 (1653.47)  100 (220.46) / 95 (209.44)  11.7 (3.09) 9.5 (10.04)
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Axle load limit at front / rear in kg (pounds)  Trailer load limit on 8% / 12% gradient, braked / unbraked in kg (pounds)  Roof load limit / permissible nose weight in kg (pounds)  Capacities  Cooling system capacity (incl. heating) in liters (US gallons)  Engine oil capacity (including filter) in liters (US quarts)  Fuel tank capacity in liters (US gallons)  Body / dimensions  Body type / number of doors / seats  Drag coefficient Cd / frontal area A in m2 (square feet)	2300 (5070.63) / 2300 (5070.63) / 750 (1653.47)  100 (220.46) / 95 (209.44)  11.7 (3.09) 9.5 (10.04) 82 (21.66)  Aluminum: Audi Space Frame ASF / 4 / 5 0.27 / 2.41 (25.94)
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