



Audi of America

S6 Technical Specifications

2008 Model Year

Technical Specifications		2008 Audi S6 5.2L V10 quattro sedan	
ENGINE:			
Type	V10 spark-ignition direct injection		
Arrangement	Front mounted, longitudinal		
Bore	3.33 in.	84.5 mm	
Stroke	3.65 in.	92.8 mm	
Displacement	318 cu. in.	5204 cc	
Compression ratio	12.5:1		
Fuel requirement	min. Premium unleaded (91 AKI), Premium unleaded plus (95 AKI) recommended for maximum performance		
Horsepower (SAE)	435 hp	6800 rpm	
Max. Torque	398 lbs. ft. 3000-4000 rpm		
ENGINE DESIGN:			
Cylinder block	Aluminium alloy		
Cylinder head	Aluminium alloy		
Valve train / intake	DOHC, chain driven, continuous camshaft adjustment for intake and exhaust valves		
Firing order	1 - 6 - 5 - 10 - 2 - 7 - 3 - 8 - 4 - 9		
Fuel injection / Ignition system	fully electronic sequential injection, coordinated torque control, hot-film air mass measurement, drive-by-wire throttle control, mapped ignition with solid-state high-voltage distribution, adaptive lambda control		
Emission system	four ceramic main catalytic converters, secondary air system		
ELECTRICAL SYSTEM:			
Battery	12 volts	110 amp/hr	
Alternator	14 volts	190 amp	
DRIVETRAIN:			
Transmission	six-speed automatic with Tiptronic® and automatic shift lock		
Type	Automatic		
Gear ratios: 1st	4.171:1		
2nd	2.340:1		
3rd	1.521:1		
4th	1.143:1		
5th	0.867:1		
6th	0.691:1		
Reverse	3.403:1		
Final Drive	3.309:1		
Front Differential	Hypoid gear, electronically locking (EDL)		
Center Differential	Torque sensing differential providing automatic and variable front to rear power proportioning		
Rear Differential	Hypoid gear, electronically locking (EDL)		



Audi of America

S6 Technical Specifications

2008 Model Year

Technical Specifications (continued)		2008 Audi S6 5.2L V10 quattro sedan	
STEERING:			
Type	vehicle speed-sensitive power rack and pinion		
Ratio	14.6:1		
Turns (lock-to-lock)	2.49		
Turning circle (curb-to-curb)	39.0 ft.	11.9 m	
SUSPENSION:			
Front	Four link, anti roll bar, twin-tube-gas-filled shock absorbers		
Rear	Trapezoidal-link, twin-tube-gas-filled shock absorbers		
BRAKES:			
	Electronic stability program (ESP 8) with anti-lock brake, electronic rear brake pressure proportioning, vacuum power assist, asbestos free linings, dual diagonal circuits		
Front, size and type	15.2 in.	385 mm	- Ventilated disc
Rear, size and type	13.0 in.	330 mm	- Ventilated disc
BODY:			
Material	galvanized steel (aluminum hood and fenders)		
Corrosion protection	Multi-step anti-corrosion protection (12 year limited warranty against corrosion perforation)		
WARRANTY/MAINTENANCE:			
	4-Year/50,000 mile new vehicle limited warranty		
	12-Month/5,000 mile (whichever occurs first) NO CHARGE first scheduled maintenance		
CAPACITIES:			
Engine oil	10.6 qt.	10 liter	
Fuel tank	21.1 gal.	80 liter	
Cooling system	15.9 qt.	15.0 liter	
EXTERIOR DIMENSIONS:			
Wheelbase	112.1 in.	2847 mm	
Track: front / rear	62.8 / 62.0 in	1596/1576	
Overall length	193.5 in.	4916 mm	
Overall width	79.2 in.	2012 mm	
Height (unloaded)	57 in.	1449 mm	
Ground clearance (loaded)	4.3 in.	108 mm	
Curb weight	4486 lbs.	2035 kg	
Drag coefficient	Cw = 0.31		
INTERIOR DIMENSIONS:			
Seating Capacity	5		
Head room front / rear	38.7 in.	982 mm	/ 37.8 in. 959 mm
w/sunroof front / rear	37.5 in.	952 mm	/ 37.8 in. 960 mm
Shoulder room front / rear	57.1 in.	1450 mm	/ 55.9 in. 1421 mm
Leg room front / rear	41.3 in.	1050 mm	/ 36.9 in. 938 mm
Int. vol. (EPA) front / rear	52.8 cu. ft.		/ 45.14 cu. ft. = total of 97.94 cu. ft.
Luggage capacity (EPA)	15.9 cu. ft.		
PERFORMANCE:			
0-50 mph (0-80kmh)	3.8 sec.		
0-60 mph (0-100 km/h)	5.1 sec.		
1/4 mile	13.4 sec.		
Top speed	Top speed is electronically limited to 155 mph (250 km/h)		
FUEL ECONOMY: 2008 EPA estimates			
City	14 mpg		
Highway	19 mpg		
Combined	16 mpg		
FUEL ECONOMY: 2007 Canadian Estimate			
City	15.2 liters/100km		
Highway	10.4 liters/100km		