

Mercedes-Benz S 350 BlueTEC

Engine

Number of cylinders/arrangement		V6, 4 valves per cylinder
Displacement	cc	2987
Bore x stroke	mm	83.0 x 92.0
Rated output	kW/hp	190/258 at 3600 rpm
Rated torque	Nm	620 at 1600-2400 rpm
Compression ratio		15.5:1
Mixture formation		High-pressure fuel injection with common-rail technology, VNT turbocharger, EDC

Power transmission

Transmission		7G-TRONIC PLUS automatic transmission
Gear ratios	Final drive	2.47
	1st gear	4.38
	2nd gear	2.86
	3rd gear	1.92
	4th gear	1.37
	5th gear	1.00
	6th gear	0.82
	7th gear	0.73
	Reverse 1	3.42
	Reverse 2	2.23

Chassis and suspension

Front axle	Four-link front suspension with air springs, single-tube shock absorbers, anti-roll bar
Rear axle	Multi-link independent rear suspension with air springs, single-tube shock absorbers, anti-roll bar
Braking system	Internally ventilated disc brakes at front, internally ventilated disc brakes at rear, electric parking brake, ABS, Brake Assist, ESP®
Steering	Electromechanical rack-and-pinion power steering
Wheels	8.0 J x 17
Tyres	245/55 R 17 W

Dimensions and weights

Wheelbase	mm	3165
Track, front/rear	mm	1624/1637
Length (overall)	mm	5246
Width (overall)	mm	1899
Height (overall)	mm	1491
Turning circle	m	12.3
Boot capacity max.*	l	510
Kerb weight acc. to EC	kg	1975
Payload	kg	715
Permissible gross vehicle weight	kg	2630
Tank capacity/of which reserve	l	70/8

Performance and fuel consumption

Acceleration 0-100 km/h	s	6.8
Top speed	km/h	250
Combined fuel consumption	l/100 km	5.6-5.0
CO ₂ emissions	g/km	158-148

Figures for long wheelbase

*acc. to VDA measuring method

Mercedes-Benz S 400 HYBRID

Engine

Number of cylinders/arrangement		V6, 4 valves per cylinder
Displacement	cc	3498
Bore x stroke	mm	92.9 x 86.0
Rated output	kW/hp	225/306 at 6500 rpm
Rated output electric motor	kW	20
Rated torque	Nm	370 at 3500-5250 rpm
Rated torque electric motor	Nm	250
Compression ratio		12.0:1
Mixture formation		High-pressure injection

Power transmission

Transmission		7G-TRONIC PLUS automatic transmission
Gear ratios	Final drive	3.07
	1st gear	4.38
	2nd gear	2.86
	3rd gear	1.92
	4th gear	1.37
	5th gear	1.00
	6th gear	0.82
	7th gear	0.73
	Reverse 1	3.42
	Reverse 2	2.23

Chassis and suspension

Front axle	Four-link front suspension with air springs, single-tube shock absorbers, anti-roll bar
Rear axle	Multi-link independent rear suspension with air springs, single-tube shock absorbers, anti-roll bar
Braking system	Internally ventilated disc brakes at front, internally ventilated disc brakes at rear, electric parking brake, ABS, Brake Assist, ESP®
Steering	Electromechanical rack-and-pinion power steering
Wheels	8.0 J x 17
Tyres	245/55 R 17 W

Dimensions and weights

Wheelbase	mm	3165
Track, front/rear	mm	1624/1637
Length (overall)	mm	5246
Width (overall)	mm	1899
Height (overall)	mm	1491
Turning circle	m	12.3
Boot capacity max.*	l	510
Kerb weight acc. to EC	kg	1945
Payload	kg	685
Permissible gross vehicle weight	kg	2630
Tank capacity/of which reserve	l	70/8

Performance and fuel consumption

Acceleration 0-100 km/h	s	6.8
Top speed	km/h	250
Comb. fuel consumption	l/100 km	6.8-6.3
CO ₂ emissions	g/km	159-147

Figures for long wheelbase

*acc. to VDA measuring method

Mercedes-Benz S 500

Engine

Number of cylinders/arrangement		V8, 4 valves per cylinder
Displacement	cc	4663
Bore x stroke	mm	83.0 x 92.0
Rated output	kW/hp	335/455 at 5250-5500 rpm
Rated torque	Nm	700 at 1800-3500 rpm
Compression ratio		10.5:1
Mixture formation		High-pressure injection, 2 turbochargers, EDC

Power transmission

Transmission		7G-TRONIC PLUS automatic transmission
Gear ratios	Final drive	2.65
	1st gear	4.38
	2nd gear	2.86
	3rd gear	1.92
	4th gear	1.37
	5th gear	1.00
	6th gear	0.82
	7th gear	0.73
	Reverse 1	3.42
	Reverse 2	2.23

Chassis and suspension

Front axle		Four-link front suspension with air springs, single-tube shock absorbers, anti-roll bar
Rear axle		Multi-link independent rear suspension with air springs, single-tube shock absorbers, anti-roll bar
Braking system		Internally ventilated disc brakes at front, internally ventilated disc brakes at rear, electric parking brake, ABS, Brake Assist, ESP®
Steering		Electromechanical rack-and-pinion power steering
Wheels		8.0 J x 18
Tyres		245/50 R 18 W

Dimensions and weights

Wheelbase	mm	3165
Track, front/rear	mm	1624/1637
Length (overall)	mm	5246
Width (overall)	mm	1899
Height (overall)	mm	1491
Turning circle	m	12.3
Boot capacity max.*	l	530
Kerb weight acc. to EC	kg	2015
Payload	kg	715
Permissible gross vehicle weight	kg	2690
Tank capacity/of which reserve	l	78/8

Performance and fuel consumption

Acceleration 0-100 km/h	s	4.8
Top speed	km/h	250
Combined fuel consumption	l/100 km	9.1-8.6
CO ₂ emissions	g/km	213-199

Figures for long wheelbase

*acc. to VDA measuring method