



Mercedes-Benz

## Mercedes-Benz S 400 BlueHYBRID

### Internal combustion engine

No. of cylinders/arrangement		6/V, 4 valves per cylinder
Displacement	cc	3498
Bore x stroke	mm	92.9 x 86
Rated output	kW/hp	205/279
Rated torque	Nm	350 at 2400 - 5000 rpm
Compression ratio		10.7 : 1
Mixture preparation		Microprocessor-controlled injection system with hot-film air-mass sensor (HFM)

### Hybrid module

Type		3-phase AC magneto motor (external rotor)
Rated output	kW/hp	15/20
Rated torque	Nm	160

### Combined internal combustion engine and hybrid module

Combined rated output	kW/hp	220/299
Combined rated torque	Nm	385

### Power transmission

Drive system		Standard drive system
Transmission		Seven-speed automatic transmission
Ratios	Final drive	3.07
	1st gear	4.377
	2nd gear	2.859
	3rd gear	1.921
	4th gear	1.368
	5th gear	1.000
	6th gear	0.820
	7th gear	0.728
	Reverse	-3.416/-2.231

### Chassis and suspension

Front		Four-link suspension, anti-dive control, AIRMATIC air suspension, gas shock absorbers, stabilizer
Rear		Multi-link independent suspension, anti-squat and anti-dive, AIRMATIC air suspension, gas shock absorbers, stabiliser
Braking system		Disc brakes all-round, front internally ventilated, drum-type parking brake at rear, ABS, Brake Assist, ESP®
Steering		Rack-and-pinion with speed-sensitive power assistance, steering damper
Wheels		8 J x 17 ET 43
Tyres		235/55 R 17

### Dimensions and weights

Wheelbase	mm	3035
Track, front/rear	mm	1600/1606
Overall length	mm	5076
Overall width	mm	1871
Overall height	mm	1473
Turning circle	m	11.8
Boot capacity*	l	560
Kerb weight (EC)**	kg	1955
Kerb weight acc. to EC	kg	595
Perm. gross vehicle weight	kg	2550
Tank capacity/incl. reserve	l	90/11

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**Performance and fuel consumption**

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Acceleration 0 - 100 km/h	s	7.2
Top speed	km/h	250
Fuel consumption***	l/100 km	7.9
CO <sub>2</sub> emissions***	g/km	186

\*acc. to VDA measuring method; \*\* incl. 75 kg for driver and luggage; \*\*\* combined