

Technical specifications. BMW 5 Series Touring. i5 eDrive40.



BMW i5 eDrive40 Touring		
Vehicle category		
Drive type / body variant	Battery Electric Vehicle - BEV / Touring	
Body		
Number of doors/seats	5 / 5	
Length/width/height (empty)	mm	5060 / 1900 / 1515
Wheelbase	mm	2995
Track width, front/rear	mm	1622 / 1625
Turning circle	m	12.3
Turning circle with Integral Active Steering	m	11.7
Ground clearance, empty	mm	147
Vehicle curb weight (DIN/EU)	kg	2180 / 2255
Payload according to DIN	kg	610
Permitted total weight	kg	2790
Permitted axle loads, front/rear	kg	1290 / 1655
Permitted trailer load braked (12 %) / unbraked	kg	1500 / 750
Permitted roof load/permitted trailer nose weight	kg	100 / 80
Luggage compartment volume	l	570 - 1700
Drag coefficient	$c_x \times A$	0.24 x 2.50
Drive		
Drive concept	Electric drive, transmission of the drive torque of the electric motor to the rear wheels, adaptive recuperation	
System performance	kW/hp	230 / 313
System performance in My Mode Sport	kW/hp	250 / 340
System torque	Nm	400(430 ¹⁾)
System power weight	kg/kW	8.7
Transmission type	Automatic transmission, single-stage with fixed ratio	
Electric motor		
Motor technology	Fifth-generation BMW eDrive technology: Current-excited synchronous machine, electric motor, power electronics and transmission each integrated in a common housing, generator function for recuperation	
Peak power according to ECE R 85	kW/hp	250 / 340
at motor speed	rpm	8000
max. torque	Nm	430 ¹⁾
at motor speed	rpm	0 - 5000
Overall ratio	:1	11.115
High voltage battery		
Battery technology	Lithium-ion	
Installation location	Underbody	
Voltage	V	400
Net energy content	kWh	81.2
Charging time for 0 -100% charge	8.5 h at 11 kW (16 A / 230 V, AC three-phase, Flexible Fast Charger)	
Charging time for 10-80% charge	30 min at 205 kW (DC, fast charging station)	
additional range after 10 minutes of DC charging (max. charging rate)	km	149
Charging unit		
Type	Combined Charging Unit (CCU) with integrated 3.5-kW voltage converter for supplying the 12-volt electrical system	
max. charging power alternating current (AC) single-phase	kW	7.4 (EU, CN, KR among others) / 11.0 (US, JP)
max. charging power alternating current (AC) three-phase	kW	22.0
max. charging power direct current (DC)	kW	205

BMW i5 eDrive40 Touring	
Driving dynamics and safety	
Front wheel suspension	Double wishbone axle in aluminium construction with separated lower control arm level; optional: electronically controlled shock absorbers
Rear wheel suspension	Five-link axle in aluminium construction, double elastic mounting, air suspension with automatic self-levelling; optional: electronically controlled dampers
Brakes, front	Four-piston, fixed-caliper disc brakes, ventilated
Brakes, rear	Single-piston, floating-caliper disc brakes, ventilated
Driving stability systems	Standard: DSC incl. ABS, ASC and DTC (Dynamic Traction Control), directly controlled wheel slip limitation, Cornering Brake Assist CBC, Brake Assist DBC, Dry Brake Function, Fade Compensation, Hill Start Control, Trailer Stability Control, Performance Control; optional: Active Roll Stabilisation
Safety equipment	Standard: Airbags for driver and passenger, side airbags for driver and passenger, interaction airbag between driver and passenger, front and rear head airbags, 3-point automatic-reel belt on all seats, with seat belt stopper at front, seat belt tensioner and seat belt force limiter at the front and the outside rear seats, crash sensors, tyre pressure display
Steering	Electrically assisted rack-and-pinion steering (EPS) with Servotronic function and variable steering ratio; optional: Integral Active Steering
Overall steering ratio	:1 16.5
Tyres, front/rear	245/45 R19 102Y XL / 275/40 R19 105Y XL
Wheel rims, front/rear	8.5J x 19 LM / 10J x 19 LM
Driving performance figures	
Acceleration 0-100 km/h (62 mph)	s 6.1
Top speed	km/h 193 (120 mph) (electronically limited)
Consumption / range	
Power consumption combined (WLTP)	kWh/100 km (62 miles) 19.3 - 16.5
Power consumption combined (NEDC)	kWh/100 km (62 miles) -
Range (WLTP)	km 483 - 560
Environmental features	
Emission rating	Electric vehicle

Technical specifications valid for ACEA markets / registration-related data only relevant to Germany in some cases
All figures relating to mileage, consumption, emissions and range are provisional.

¹⁾ When the Sport Boost or Launch Control function is activated

Fuel consumption, CO₂ emission figures and power consumption as well as electric range were measured using the methods required according to Regulation VO (EC) 715/2007 as amended. Where a range is shown, the WLTP figures take into account the impact of any optional extras.

For vehicles which have been newly type-approved since 01.01.2021, official figures are only available according to WLTP. In addition, according to EU Regulation 2022/195, from 01.01.2023 the NEDC values in the EC certificates of conformity will no longer apply. Further information on the WLTP and NEDC measurement procedures is also available at www.bmw.de/wltp.

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BMW 5 Series Touring. i5 M60 xDrive.

BMW i5 M60 xDrive Touring		
Vehicle category		
Drive type / body variant	Battery Electric Vehicle - BEV / Touring	
Body		
Number of doors/seats	5 / 5	
Length/width/height (empty)	mm	5060 / 1900 / 1505
Wheelbase	mm	2995
Track width, front/rear	mm	1622 / 1625
Turning circle	m	11.9
Ground clearance, empty	mm	137
Vehicle curb weight (DIN/EU)	kg	2350 / 2425
Payload according to DIN	kg	610
Permitted total weight	kg	2960
Permitted axle loads, front/rear	kg	1430 / 1700
Permitted trailer load braked (12 %) / unbraked	kg	2000 / 750
Permitted roof load/permitted trailer nose weight	kg	100 / 80
Luggage compartment volume	l	570 - 1700
Drag coefficient	c _x x A	0.25 x 2.50
Drive		
Drive concept	Electric all-wheel drive, coordinated transmission of drive torque from one electric motor to the front and one to the rear wheels as needed, adaptive recuperation	
System performance	kW/hp	380 / 517
System performance in My Mode Sport	kW/hp	442 / 601
System torque	Nm	795 (820 ¹⁾)
System power weight	kg/kW	5.3
Transmission type	Automatic transmission, single-stage with fixed ratio	
Electric motors		
Motor technology	Fifth-generation BMW eDrive technology: Current-excited synchronous machines, electric motor, power electronics and transmission each integrated in a common housing, generator function for recuperation	
Electric motor front		
Peak power according to ECE R 85	kW/hp	192 / 261
at motor speed	rpm	8000
max. torque	Nm	365
at motor speed	rpm	0 - 5000
Overall ratio	:1	8.774
Electric motor rear		
Peak power according to ECE R 85	kW/hp	250 / 340
at motor speed	rpm	8000
max. torque	Nm	430
at motor speed	rpm	0 - 5000
Overall ratio	:1	9.374
High voltage battery		
Battery technology	Lithium-ion	
Installation location	Underbody	
Voltage	V	400
Net energy content	kWh	81.2
Charging time for 0 -100% charge	8.5 h at 11 kW (16 A / 230 V, AC three-phase, Flexible Fast Charger)	
Charging time for 0 -100% charge	4.25 h at 22 kW (32 A / 230 V, AC three-phase, wallbox)	
Charging time for 10-80% charge	30 min at 205 kW (DC, fast charging station)	
additional range after 10 minutes of DC charging (max. charging rate)	km	142
Charging unit		
Type	Combined Charging Unit (CCU) with integrated 3.5-kW voltage converter for supplying the 12-volt electrical system	
max. charging power alternating current (AC) single-phase	kW	7.4 (EU, CN, KR among others) / 11.0 (US, JP)
max. charging power alternating current (AC) three-phase	kW	22.0
max. charging power direct current (DC)	kW	205

BMW i5 M60 xDrive Touring

Driving dynamics and safety

Front wheel suspension	Double wishbone axle in aluminium construction with separated lower control arm level, electronically controlled shock absorbers
Rear wheel suspension	Five-link axle in aluminium construction, double elastic mounting, air suspension with automatic self-levelling, electronically controlled dampers
Brakes, front	Four-piston, fixed-caliper disc brakes, ventilated
Brakes, rear	Single-piston, floating-caliper disc brakes, ventilated
Driving stability systems	Standard: DSC incl. ABS, ASC and DTC (Dynamic Traction Control), directly controlled wheel slip limitation, Cornering Brake Assist CBC, Brake Assist DBC, Dry Brake Function, Fade Compensation, Hill Start Control, Trailer Stability Control, Performance Control; optional: Active Roll Stabilisation
Safety equipment	Standard: Airbags for driver and passenger, side airbags for driver and passenger, interaction airbag between driver and passenger, front and rear head airbags, 3-point automatic-reel belt on all seats, with seat belt stopper at front, seat belt tensioner and seat belt force limiter at the front and the outside rear seats, crash sensors, tyre pressure display
Steering	Electrically assisted rack-and-pinion steering (EPS) with Servotronic function and variable steering ratio, Integral Active Steering
Overall steering ratio	:1 15.7
Tyres, front/rear	245/45 R19 102Y XL / 275/40 R19 105Y XL
Wheel rims, front/rear	8.5J x 19 LM / 10J x 19 LM

Driving performance figures

Acceleration 0-100 km/h (62 mph)	s	3.9
Top speed	km/h	230 (143 mph) (electronically limited)

Consumption / range

Power consumption combined (WLTP)	kWh/100 km (62 miles)	20.8 - 18.3
Power consumption combined (NEDC)	kWh/100 km (62 miles)	-
Range (WLTP)	km	445 - 506

Environmental features

Emission rating	Electric vehicle
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¹⁾ When the M Sport Boost or M Launch Control function is activated

Fuel consumption, CO₂ emission figures and power consumption as well as electric range were measured using the methods required according to Regulation VO (EC) 715/2007 as amended. Where a range is shown, the WLTP figures take into account the impact of any optional extras.

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BMW 5 Series Touring. 520d.

BMW 520d Touring		
Body		
Number of doors/seats		5 / 5
Length/width/height (empty)	mm	5060 / 1900 / 1515
Wheelbase	mm	2995
Track width, front/rear	mm	1634 / 1668
Turning circle	m	12.3
Turning circle with Integral Active Steering	m	11.7
Ground clearance, empty	mm	155
Fuel tank capacity	approx. l	60
Engine oil ¹⁾	l	³⁾
Unladen weight according to DIN/EU	kg	1835 / 1910
Payload according to DIN	kg	660
Permitted total weight	kg	2495
Permitted axle loads, front/rear	kg	1165 / 1430
Perm. trailer load (12%) braked/unbraked	kg	2000 / 750
Permitted roof load/permitted trailer nose weight	kg	100 / 100
Luggage compartment capacity	l	570 - 1700
Drag coefficient	cx x A	0.26 x 2.46
Drive		
Engine technology		BMW TwinPower Turbo Technology: Multi-stage turbocharging, high and low-pressure charger with variable inlet geometry, common-rail direct injection with solenoid valve injectors (max. injection pressure: 2500 bar), 48-volt mild hybrid technology
Power output / total ²⁾	kW/hp	145 / 197
Torque / total ²⁾	Nm	400
Combustion engine		
Type/no. of cylinders/valves		in-line / 4 / 4
Capacity, effective	cc	1995
Stroke/bore	mm	90.0 / 84.0
Compression	:1	16.5
Fuel		Diesel
Nominal power output	kW/hp	145 / 197
at engine speed	rpm	4000
Nominal torque	Nm	400
at engine speed	rpm	1500 - 2750
Power output per litre	kW/l	72.7
Electric motor		
Nominal power output	kW/hp	8 / 11
Nominal torque	Nm	25
Electrical system		
12 volt battery/installation location	Ah / -	70 / engine compartment
48 volt battery/installation location	Ah / -	20 / Luggage compartment
Driving dynamics and safety		
Front wheel suspension		Double wishbone axle in aluminium construction with separated lower control arm level; optional: electronically controlled shock absorbers
Rear wheel suspension		Five-link axle in aluminium construction, double elastic mounting; optional: electronically controlled dampers
Brakes, front		Four-piston, fixed-caliper disc brakes, ventilated
Brakes, rear		Single-piston, floating-caliper disc brakes, ventilated
Driving stability systems		Standard: DSC incl. ABS, ASC and DTC (Dynamic Traction Control), directly controlled wheel slip limitation, Cornering Brake Assist CBC, Brake Assist DBC, Dry Brake Function, Fade Compensation, Hill Start Control, Trailer Stability Control, Performance Control; optional: Active Roll Stabilisation
Safety equipment		Standard: Airbags for driver and passenger, side airbags for driver and passenger, interaction airbag between driver and passenger, front and rear head airbags, 3-point automatic-reel belt on all seats, with seat belt stopper at front, seat belt tensioner and seat belt force limiter at the front and the outside rear seats, crash sensors, tyre pressure display
Steering		Electrically assisted rack-and-pinion steering (EPS) with Servotronic function and variable steering ratio; optional: Integral Active Steering
Overall steering ratio	:1	16.5
Tyres, front/rear		225/55 R18 102Y XL
Wheel rims, front/rear		7.5J x 18 light alloy

BMW 520d Touring			
Transmission			
Transmission type		8-speed Steptronic transmission	
Gear ratio	I	:1	5.250
	II	:1	3.360
	III	:1	2.172
	IV	:1	1.720
	V	:1	1.316
	VI	:1	1.000
	VII	:1	0.822
	VIII	:1	0.640
	R	:1	3.712
Rear axle ratio		:1	3.077
Driving performance figures			
Weight-to-power ratio (DIN)		kg/kW	12.7
Acceleration 0-100 km/h (62 mph)		s	7.5
Top speed		km/h	220
BMW EfficientDynamics			
BMW EfficientDynamics measures as standard	Mild hybrid technology with 48-volt starter generator, brake energy recuperation with recuperation indicator, Auto Start Stop function, Personal and Efficient modes with coasting function, Forward View Assist, shift display, electromechanical power steering, BMW EfficientLightweight, optimised aerodynamic properties, active air flap control, auxiliary units controlled according to demand, map-controlled oil pump, efficiency and weight-optimised all-wheel drive, rear axle and transfer gearbox with optimised efficiency, tyres with reduced rolling resistance, Blue Performance technology with SCR catalytic converter		
Fuel consumption in EU cycle			
total (WLTP)	l/100 km (62 miles)		5.9 - 5.3
total (NEDC)	l/100 km (62 miles)		-
CO ₂ (WLTP)	g/km		154 - 141
CO ₂ (NEDC)	g/km		-
Emission rating			Euro 6e

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¹⁾ Oil change amount

²⁾ Is made up of combustion engine drive (stated nominal value) and electric drive (up to stated nominal value)

³⁾ Data not yet available

Fuel consumption, CO₂ emission figures and power consumption as well as electric range were measured using the methods required according to Regulation VO (EC) 715/2007 as amended. Where a range is shown, the WLTP figures take into account the impact of any optional extras.

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BMW 5 Series Touring. 520d xDrive.

BMW 520d xDrive Touring		
Body		
Number of doors/seats		5 / 5
Length/width/height (empty)	mm	5060 / 1900 / 1515
Wheelbase	mm	2995
Track width, front/rear	mm	1634 / 1668
Turning circle	m	12.4
Turning circle with Integral Active Steering	m	11.8
Ground clearance, empty	mm	155
Fuel tank capacity	approx. l	60
Engine oil ¹⁾	l	³⁾
Unladen weight according to DIN/EU	kg	1895 / 1970
Payload according to DIN	kg	660
Permitted total weight	kg	2555
Permitted axle loads, front/rear	kg	1210 / 1430
Perm. trailer load (12%) braked/unbraked	kg	2000 / 750
Permitted roof load/permitted trailer nose weight	kg	100 / 100
Luggage compartment capacity	l	570 - 1700
Drag coefficient	cx x A	0.26 x 2.46
Drive		
Engine technology	BMW TwinPower Turbo Technology: Multi-stage turbocharging, high and low-pressure charger with variable inlet geometry, common-rail direct injection with solenoid valve injectors (max. injection pressure: 2500 bar), 48-volt mild hybrid technology	
Power output / total ²⁾	kW/hp	145 / 197
Torque / total ²⁾	Nm	400
Combustion engine		
Type/no. of cylinders/valves		in-line / 4 / 4
Capacity, effective	cc	1995
Stroke/bore	mm	90.0 / 84.0
Compression	:1	16.5
Fuel		Diesel
Nominal power output	kW/hp	145 / 197
at engine speed	rpm	4000
Nominal torque	Nm	400
at engine speed	rpm	1500 - 2750
Power output per litre	kW/l	72.7
Electric motor		
Nominal power output	kW/hp	8 / 11
Nominal torque	Nm	25
Electrical system		
12 volt battery/installation location	Ah / -	70 / engine compartment
48 volt battery/installation location	Ah / -	20 / Luggage compartment
Driving dynamics and safety		
Front wheel suspension	Double wishbone axle in aluminium construction with separated lower control arm level; optional: electronically controlled shock absorbers	
Rear wheel suspension	Five-link axle in aluminium construction, double elastic mounting; optional: electronically controlled dampers	
Brakes, front	Four-piston, fixed-caliper disc brakes, ventilated	
Brakes, rear	Single-piston, floating-caliper disc brakes, ventilated	
Driving stability systems	Standard: DSC incl. ABS, ASC and DTC (Dynamic Traction Control), directly controlled wheel slip limitation, Cornering Brake Assist CBC, Brake Assist DBC, Dry Brake Function, Fade Compensation, Hill Start Control, Trailer Stability Control, Performance Control; optional: DSC linked with xDrive all-wheel drive; optional: Active Roll Stabilisation	
Safety equipment	Standard: Airbags for driver and passenger, side airbags for driver and passenger, interaction airbag between driver and passenger, front and rear head airbags, 3-point automatic-reel belt on all seats, with seat belt stopper at front, seat belt tensioner and seat belt force limiter at the front and the outside rear seats, crash sensors, tyre pressure display	
Steering	Electrically assisted rack-and-pinion steering (EPS) with Servotronic function and variable steering ratio; optional: Integral Active Steering	
Overall steering ratio	:1	15.7
Tyres, front/rear		225/55 R18 102Y XL
Wheel rims, front/rear		7.5J x 18 light alloy

BMW 520d xDrive Touring			
Transmission			
Transmission type		8-speed Steptronic transmission	
Gear ratio	I	:1	5.250
	II	:1	3.360
	III	:1	2.172
	IV	:1	1.720
	V	:1	1.316
	VI	:1	1.000
	VII	:1	0.822
	VIII	:1	0.640
	R	:1	3.712
Rear axle ratio		:1	3.077
Driving performance figures			
Weight-to-power ratio (DIN)		kg/kW	13.1
Acceleration 0-100 km/h (62 mph)		s	7.5
Top speed		km/h	218
BMW EfficientDynamics			
BMW EfficientDynamics measures as standard	Mild hybrid technology with 48-volt starter generator, brake energy recuperation with recuperation indicator, Auto Start Stop function, Personal and Efficient modes with coasting function, Forward View Assist, shift display, electromechanical power steering, BMW EfficientLightweight, optimised aerodynamic properties, active air flap control, auxiliary units controlled according to demand, map-controlled oil pump, efficiency and weight-optimised all-wheel drive, efficiency-optimised all-wheel drive, rear axle and transfer gearbox with optimised efficiency, tyres with reduced rolling resistance, Blue Performance technology with SCR catalytic converter		
Fuel consumption in EU cycle			
total (WLTP)	l/100 km (62 miles)		6.2 - 5.7
total (NEDC)	l/100 km (62 miles)		-
CO ₂ (WLTP)	g/km		163 - 149
CO ₂ (NEDC)	g/km		-
Emission rating			Euro 6e

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