

# Specifications.

## The new BMW 7 Series.

### 745e.



<b>BMW 745e</b>		
<b>Body</b>		
No of doors/seats		4 / 5
Length/width/height <sup>1)</sup> (unladen)	mm	5120 / 1902 / 1467
Wheelbase	mm	3070
Track, front/rear	mm	1611 / 1640
Ground clearance	mm	135
Turning circle	m	12.3
Fuel tank capacity	approx. l	46
Engine oil <sup>2)</sup>	l	6.5
Weight, unladen, to DIN/EU	kg	1995 / 2070
Max load to DIN	kg	660
Max permissible weight	kg	2655
Max axle load, front/rear	kg	1225 / 1480
Max roofload/max towbar download	kg	100 / –
Luggage comp capacity	l	420
Air resistance	C <sub>d</sub> x A	0.27 x 2.41
<b>Power Unit</b>		
Drive concept		Full-hybrid drive, drive torque from engine or electric motor or both transmitted to the rear wheels
Max system output	kW/hp	290 / 394
Max system torque	Nm	600
System power-to-weight ratio (DIN)	kg/kW	6.9
<b>Petrol Engine</b>		
Config/No of cyls/valves		In-line / 6 / 4
Engine technology		BMW TwinPower Turbo technology: TwinScroll turbocharger, High Precision Direct Injection, VALVETRONIC fully variable valve timing, Double-VANOS variable camshaft timing
Effective capacity	cc	2998
Stroke/bore	mm	94.6 / 82.0
Compression ratio	:1	11.0
Fuel		min. RON 91
Max output	kW/hp	210 / 286
at	rpm	5000 – 6000
Max torque	Nm	450
at	rpm	1500 – 3500
Output per litre	kW/l	70.0
<b>Electric Motor</b>		
Motor technology		BMW eDrive technology: synchronous electric motor integrated into eight-speed Steptronic transmission, generator function for recuperating energy for the high-voltage battery
Max output	kW/hp	83 / 113
at	rpm	3170
Max torque	Nm	265
at	rpm	0 – 2700
Recuperation output	kW	20
<b>High-voltage battery</b>		
Storage technology/installation		Lithium-ion / underneath rear seats
Voltage	V	355
Energy capacity (gross)	kWh	12.0
Charging time for 100% charge		4.4 h at 3.7 kW (16 A / 230 V)

**BMW 745e**

**Driving Dynamics and Safety**

Suspension, front	Double-wishbone axle in aluminium construction with separate lower track arm, small steering roll radius, anti-dive, air suspension with self-levelling	
Suspension, rear	Five-link axle in aluminium construction, steerable, with anti-squat and anti-dive control, double acoustic decoupling, air suspension with self-levelling	
Brakes, front	Vented disc brakes, with four-piston fixed callipers	
Brakes, rear	Vented disc brakes, with single-piston floating callipers	
Driving stability systems	Standard: DSC incl. ABS, ASC and DTC (Dynamic Traction Control), CBC (Cornering Brake Control), DBC (Dynamic Brake Control), Dry Braking function, Fading Compensation, Start-Off Assistant, Dynamic Damper Control	
Safety equipment	Standard: airbags for driver and front passenger, side airbags for driver and front passenger, head airbags for front and rear seats, knee airbag on the driver's side, three-point inertia-reel seatbelts on all seats with belt latch tensioner and belt force limiter in the front, crash sensors, tyre pressure indicator	
Steering	Electric Power Steering (EPS) with Servotronic function, optional: Integral Active Steering	
Steering ratio, overall	:1	16.3
Tyres, front/rear	245/50 R18 100Y	
Rims, front/rear	8J x 18 light-alloy	

**Transmission**

Type of transmission	Eight-speed Steptronic transmission	
Gear ratios	I	:1 4.714
	II	:1 3.143
	III	:1 2.106
	IV	:1 1.667
	V	:1 1.285
	VI	:1 1.000
	VII	:1 0.839
	VIII	:1 0.667
	R	:1 3.317
Final drive	:1	3.077

**Performance**

Acceleration	0–100 km/h	s	5.2
Top speed		km/h	250
Top speed (electric)		km/h	140
Range (electric)		km	54 – 58

**BMW EfficientDynamics**

BMW EfficientDynamics standard features	BMW eDrive technology, Electric Power Steering, hybrid-specific Auto Start Stop function, Optimum Shift Indicator, ECO PRO mode with coasting function and Proactive Driving Assistant, BMW EfficientLightweight, optimised aerodynamic attributes, active air flap control, on-demand operation of ancillary units, map-regulated oil pump, differential with optimised warm-up behaviour, tyres with reduced rolling resistance
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**Fuel Consumption ECE**

Fuel consumption combined	l/100 km	2.3 – 2.1
CO <sub>2</sub> emissions from fuel	g/km	52 – 48
Electric power consumption combined	kWh/100 km	15.6 – 15.1
Emission rating	Euro 6d-TEMP	

Specifications apply to ACEA markets/data relevant to homologation applies in part only to Germany (weight)

<sup>1)</sup> Height including roof fin

<sup>2)</sup> Oil change

All figures relating to performance, fuel/electric power consumption, CO<sub>2</sub> emissions and operating range are provisional.

The fuel consumption, CO<sub>2</sub> emissions, electric power consumption and operating range figures are determined according to the European Regulation (EC) 715/2007 in the version applicable. The figures refer to a vehicle with basic configuration in Germany. The range shown considers the different sizes of the selected wheels/tyres and the selected items of optional equipment, and may vary during configuration.

The values are already based on the new WLTP test cycle and are translated back into NEDC-equivalent values in order to ensure comparability between the vehicles. With respect to these vehicles, for vehicle-related taxes or other duties based (at least inter alia) on CO<sub>2</sub> emissions, the CO<sub>2</sub> values may differ from the values stated here (depending on national legislation).

Correct as at: 16.01.2019

Further information on official fuel consumption figures and specific CO<sub>2</sub> emission values of new passenger cars is included in the following guideline: 'Leitfaden über den Kraftstoffverbrauch, die CO<sub>2</sub>-Emissionen und den Stromverbrauch neuer Personenkraftwagen' (Guide to the fuel economy, CO<sub>2</sub> emissions and electric power consumption of new passenger cars), which can be obtained free of charge from all dealerships, from Deutsche Automobil Treuhand GmbH (DAT), Hellmuth-Hirth-Str. 1, 73760 Ostfildern-Scharnhausen and at <https://www.dat.de/co2/>.

# The new BMW 7 Series. 745Le.

<b>BMW 745Le</b>		
<b>Body</b>		
No of doors/seats		4 / 5
Length/width/height <sup>1)</sup> (unladen)	mm	5260 / 1902 / 1479
Wheelbase	mm	3210
Track, front/rear	mm	1611 / 1640
Ground clearance	mm	135
Turning circle	m	12.8
Fuel tank capacity	approx. l	46
Engine oil <sup>2)</sup>	l	6.5
Weight, unladen, to DIN/EU	kg	2035 / 2110
Max load to DIN	kg	635
Max permissible weight	kg	2670
Max axle load, front/rear	kg	1245 / 1500
Max roofload/max towbar download	kg	100 / –
Luggage comp capacity	l	420
Air resistance	C <sub>d</sub> x A	0.27 x 2.42
<b>Power Unit</b>		
Drive concept		Full-hybrid drive, drive torque from engine or electric motor or both transmitted to the rear wheels
Max system output	kW/hp	290 / 394
Max system torque	Nm	600
System power-to-weight ratio (DIN)	kg/kW	7.0
<b>Petrol Engine</b>		
Config/No of cyls/valves		In-line / 6 / 4
Engine technology		BMW TwinPower Turbo technology: TwinScroll turbocharger, High Precision Direct Injection, VALVETRONIC fully variable valve timing, Double-VANOS variable camshaft timing
Effective capacity	cc	2998
Stroke/bore	mm	94.6 / 82.0
Compression ratio	:1	11.0
Fuel		min. RON 91
Max output	kW/hp	210 / 286
at	rpm	5000 – 6000
Max torque	Nm	450
at	rpm	1500 – 3500
Output per litre	kW/l	70.0
<b>Electric Motor</b>		
Motor technology		BMW eDrive technology: synchronous electric motor integrated into eight-speed Steptronic transmission, generator function for recuperating energy for the high-voltage battery
Max output	kW/hp	83 / 113
at	rpm	3170
Max torque	Nm	265
at	rpm	0 – 2700
Recuperation output	kW	20
<b>High-voltage battery</b>		
Storage technology/installation		Lithium-ion / underneath rear seats
Voltage	V	355
Energy capacity (gross)	kWh	12.0
Charging time for 100% charge		4.4 h at 3.7 kW (16 A / 230 V)

**BMW 745Le**

**Driving Dynamics and Safety**

Suspension, front	Double-wishbone axle in aluminium construction with separate lower track arm, small steering roll radius, anti-dive, air suspension with self-levelling	
Suspension, rear	Five-link axle in aluminium construction, steerable, with anti-squat and anti-dive control, double acoustic decoupling, air suspension with self-levelling	
Brakes, front	Vented disc brakes, with four-piston fixed callipers	
Brakes, rear	Vented disc brakes, with single-piston floating callipers	
Driving stability systems	Standard: DSC incl. ABS, ASC and DTC (Dynamic Traction Control), CBC (Cornering Brake Control), DBC (Dynamic Brake Control), Dry Braking function, Fading Compensation, Start-Off Assistant, Dynamic Damper Control	
Safety equipment	Standard: airbags for driver and front passenger, side airbags for driver and front passenger, head airbags for front and rear seats, knee airbag on the driver's side, three-point inertia-reel seatbelts on all seats with belt latch tensioner and belt force limiter in the front, crash sensors, tyre pressure indicator	
Steering	Electric Power Steering (EPS) with Servotronic function, optional: Integral Active Steering	
Steering ratio, overall	:1	16.3
Tyres, front/rear	245/50 R18 100Y	
Rims, front/rear	8J x 18 light-alloy	

**Transmission**

Type of transmission	Eight-speed Steptronic transmission	
Gear ratios	I	:1 4.714
	II	:1 3.143
	III	:1 2.106
	IV	:1 1.667
	V	:1 1.285
	VI	:1 1.000
	VII	:1 0.839
	VIII	:1 0.667
	R	:1 3.317
Final drive	:1	3.077

**Performance**

Acceleration	0–100 km/h	s	5.3
Top speed		km/h	250
Top speed (electric)		km/h	140
Range (electric)		km	52 – 55

**BMW EfficientDynamics**

BMW EfficientDynamics standard features	BMW eDrive technology, Electric Power Steering, hybrid-specific Auto Start Stop function, Optimum Shift Indicator, ECO PRO mode with coasting function and Proactive Driving Assistant, BMW EfficientLightweight, optimised aerodynamic attributes, active air flap control, on-demand operation of ancillary units, map-regulated oil pump, differential with optimised warm-up behaviour, tyres with reduced rolling resistance
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**Fuel Consumption ECE**

Fuel consumption combined	l/100 km	2.3 – 2.2
CO <sub>2</sub> emissions from fuel	g/km	53 – 50
Electric power consumption combined	kWh/100 km	15.7 – 15.6
Emission rating	Euro 6d-TEMP	

Specifications apply to ACEA markets/data relevant to homologation applies in part only to Germany (weight)

<sup>1)</sup> Height including roof fin

<sup>2)</sup> Oil change

All figures relating to performance, fuel/electric power consumption, CO<sub>2</sub> emissions and operating range are provisional.

The fuel consumption, CO<sub>2</sub> emissions, electric power consumption and operating range figures are determined according to the European Regulation (EC) 715/2007 in the version applicable. The figures refer to a vehicle with basic configuration in Germany. The range shown considers the different sizes of the selected wheels/tyres and the selected items of optional equipment, and may vary during configuration.

The values are already based on the new WLTP test cycle and are translated back into NEDC-equivalent values in order to ensure comparability between the vehicles. With respect to these vehicles, for vehicle-related taxes or other duties based (at least inter alia) on CO<sub>2</sub> emissions, the CO<sub>2</sub> values may differ from the values stated here (depending on national legislation).

Correct as at: 16.01.2019

Further information on official fuel consumption figures and specific CO<sub>2</sub> emission values of new passenger cars is included in the following guideline: 'Leitfaden über den Kraftstoffverbrauch, die CO<sub>2</sub>-Emissionen und den Stromverbrauch neuer Personenkraftwagen' (Guide to the fuel economy, CO<sub>2</sub> emissions and electric power consumption of new passenger cars), which can be obtained free of charge from all dealerships, from Deutsche Automobil Treuhand GmbH (DAT), Hellmuth-Hirth-Str. 1, 73760 Ostfildern-Scharnhausen and at <https://www.dat.de/co2/>.

# The new BMW 7 Series. 745Le xDrive.

<b>BMW 745Le xDrive</b>		
<b>Body</b>		
No of doors/seats		4 / 5
Length/width/height <sup>1)</sup> (unladen)	mm	5260 / 1902 / 1479
Wheelbase	mm	3210
Track, front/rear	mm	1611 / 1640
Ground clearance	mm	135
Turning circle	m	12.9
Fuel tank capacity	approx. l	46
Engine oil <sup>2)</sup>	l	6.5
Weight, unladen, to DIN/EU	kg	2085 / 2160
Max load to DIN	kg	620
Max permissible weight	kg	2705
Max axle load, front/rear	kg	1300 / 1500
Max roofload/max towbar download	kg	100 / –
Luggage comp capacity	l	420
Air resistance	C <sub>d</sub> x A	0.27 x 2.42
<b>Power Unit</b>		
Drive concept		Full-hybrid drive, drive torque from engine or electric motor or both transmitted to all four wheels via BMW xDrive
Max system output	kW/hp	290 / 394
Max system torque	Nm	600
System power-to-weight ratio (DIN)	kg/kW	7.2
<b>Petrol Engine</b>		
Config/No of cyls/valves		In-line / 6 / 4
Engine technology		BMW TwinPower Turbo technology: TwinScroll turbocharger, High Precision Direct Injection, VALVETRONIC fully variable valve timing, Double-VANOS variable camshaft timing
Effective capacity	cc	2998
Stroke/bore	mm	94.6 / 82.0
Compression ratio	:1	11.0
Fuel		min. RON 91
Max output	kW/hp	210 / 286
at	rpm	5000 – 6000
Max torque	Nm	450
at	rpm	1500 – 3500
Output per litre	kW/l	70.0
<b>Electric Motor</b>		
Motor technology		BMW eDrive technology: synchronous electric motor integrated into eight-speed Steptronic transmission, generator function for recuperating energy for the high-voltage battery
Max output	kW/hp	83 / 113
at	rpm	3170
Max torque	Nm	265
at	rpm	0 – 2700
Recuperation output	kW	20
<b>High-voltage battery</b>		
Storage technology/installation		Lithium-ion / underneath rear seats
Voltage	V	355
Energy capacity (gross)	kWh	12.0
Charging time for 100% charge		4.4 h at 3.7 kW (16 A / 230 V)

**BMW 745Le xDrive**

**Driving Dynamics and Safety**

Suspension, front	Double-wishbone axle in aluminium construction with separate lower track arm, small steering roll radius, anti-dive, air suspension with self-levelling
Suspension, rear	Five-link axle in aluminium construction, steerable, with anti-squat and anti-dive control, double acoustic decoupling, air suspension with self-levelling
Brakes, front	Vented disc brakes, with four-piston fixed callipers
Brakes, rear	Vented disc brakes, with single-piston floating callipers
Driving stability systems	Standard: DSC incl. ABS, ASC and DTC (Dynamic Traction Control), CBC (Cornering Brake Control), DBC (Dynamic Brake Control), Dry Braking function, Fading Compensation, Start-Off Assistant, DSC networked with xDrive all-wheel-drive system, Dynamic Damper Control
Safety equipment	Standard: airbags for driver and front passenger, side airbags for driver and front passenger, head airbags for front and rear seats, knee airbag on the driver's side, three-point inertia-reel seatbelts on all seats with belt latch tensioner and belt force limiter in the front, crash sensors, tyre pressure indicator
Steering	Electric Power Steering (EPS) with Servotronic function, optional: Integral Active Steering
Steering ratio, overall	:1 16.3
Tyres, front/rear	245/50 R18 100Y
Rims, front/rear	8J x 18 light-alloy

**Transmission**

Type of transmission	Eight-speed Steptronic transmission	
Gear ratios	I	:1 4.714
	II	:1 3.143
	III	:1 2.106
	IV	:1 1.667
	V	:1 1.285
	VI	:1 1.000
	VII	:1 0.839
	VIII	:1 0.667
	R	:1 3.317
Final drive		:1 3.231

**Performance**

Acceleration	0–100 km/h	s	5.1
Top speed		km/h	250
Top speed (electric)		km/h	140
Range (electric)		km	50 – 54

**BMW EfficientDynamics**

BMW EfficientDynamics standard features	BMW eDrive technology, Electric Power Steering, hybrid-specific Auto Start Stop function, Optimum Shift Indicator, ECO PRO mode with coasting function and Proactive Driving Assistant, BMW EfficientLightweight, optimised aerodynamic attributes, active air flap control, on-demand operation of ancillary units, map-regulated oil pump, differential and transfer case with optimised warm-up behaviour, tyres with reduced rolling resistance
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**Fuel Consumption ECE**

Fuel consumption combined	l/100 km	2.6 – 2.3
CO <sub>2</sub> emissions from fuel	g/km	59 – 52
Electric power consumption combined	kWh/100 km	16.3 – 15.8
Emission rating		Euro 6d-TEMP

Specifications apply to ACEA markets/data relevant to homologation applies in part only to Germany (weight)

<sup>1)</sup> Height including roof fin

<sup>2)</sup> Oil change

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# Output and torque diagrams. The new BMW 7 Series. 745e, 745Le, 745Le xDrive.

