

# Technical specifications.

## BMW X5.

### X5 xDrive45e.



BMW X5 xDrive45e		
<b>Body</b>		
Number of doors/seats		5 / 5
Length/width/height (empty)	mm	4922 / 2004 / 1745
Wheelbase	mm	2975
Track width, front/rear	mm	1678 / 1698
Turning circle	m	12.6
Fuel tank capacity	approx. l	69
Engine oil <sup>1)</sup>	l	6.5
Unladen weight according to DIN/EU	kg	2435 / 2510
Payload according to DIN	kg	715
Permitted total weight	kg	3150
Permitted axle loads, front/rear	kg	1390 / 1810
Permitted towing capacity (12%)	kg	2700 / 750
braked/unbraked		
Permitted roof load/ permitted download	kg	100 / 140
Luggage compartment capacity	L	500 – 1720
Drag coefficient	$c_x \times A$	0.32 x 2.90
<b>Powertrain</b>		
Drive concept		Full hybrid drive, transmission of engine torque of one or both motors to all four wheels via BMW xDrive
System performance	kW/hp	290 / 394
System torque	Nm	600
System weight-to-power ratio (DIN)	kg/kW	8.4
<b>Petrol engine</b>		
Type/no. of cylinders/valves		inline / 6 / 4
Engine technology		BMW TwinPower Turbo Technology: Twin-scroll turbocharger, direct fuel injection: High Precision Injection, fully variable valve control (VALVETRONIC), Double VANOS variable camshaft control
Capacity, effective	cc	2998
Stroke/bore	mm	94.6/82.0
Compression	:1	11.0
Fuel		min RON 91
Output	kW/hp	210 / 286
at engine speed	rpm	5000 – 6000
Torque	Nm	450
at engine speed	rpm	1500 – 3500
Power output per litre	kW/l	70.0
<b>Electric motor</b>		
Motor technology		BMW eDrive Technology: Synchronous electric motor integrated into 8-speed Steptronic transmission, generator function for recuperating energy for the high-voltage storage system
Top performance	kW/hp	83 / 113
at motor speed	rpm	3170
Torque	Nm	265
at motor speed	rpm	0 – 3170
<b>High voltage storage system</b>		
Storage system technology / installation location		Lithium-ion / underfloor installation, rear
Voltage	V	354
Energy capacity (gross / net)	kWh	24.0 / 20.9
Charging time for 100 % charge		6.8 h at 3.7 kW (16 Ah / 230 V)
<b>Transmission</b>		
Transmission type		8-speed Steptronic transmission
Gear ratio	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 ratio		:1	3.636

**Driving dynamics and safety**

Front wheel suspension	Aluminium double-wishbone axle, air suspension with automatic self-levelling suspension		
Rear wheel suspension	Lightweight steel five-link axle, air suspension with automatic self-levelling suspension		
Brakes, front	Single-piston, fixed-caliper disc brakes, ventilated		
Brakes, rear	Single-piston, floating-caliper disc brakes, ventilated		
Driving stability systems	Standard: DSC incl. ABS and DTC (Dynamic Traction Control), Cornering Brake Control CBC, brake assistant DBC, brake dry function, Fading Brake Support, Hill Start Control, DSC linked with all-wheel drive system, automatic differential lock (ADB-X), Hill Descent Control HDC, Dynamic Damper Control; optional: active roll stabilisation function, controlled differential lock in rear bevel gears		
Safety equipment	Standard: Airbags for driver and passenger, side airbags for 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, crash sensors, tyre pressure display		
Steering	Electro-mechanical rack power steering (EPS); optional: Integral active steering		
Overall steering ratio	:1		18.7
Tyres, front/rear.			265/50 R19 110W XL
Wheel rims, front/rear.			9J x 19 light alloy

**Driving performance figures**

Acceleration	0-100 km/h	s	5.6
Top speed		km/h	235
Maximum speed electric:		km/h	135
Electric range		km	86 – 97

**Offroad properties**

Overhang angle front/rear	°	25.2 / 22.3
Ramp angle	°	20.2
Ground clearance, empty	mm	214
Wading depth (at 7 km/h)	mm	500

**BMW EfficientDynamics**

BMW EfficientDynamics measures as standard	BMW eDrive technology, electromechanical power steering, hybrid specific Auto Start Stop function, shift point display, ECO PRO mode with coasting function and anticipation driving assistant, BMW EfficientLightweight, optimised aerodynamic properties, active air flap control, needs-based control of ancillary components, map-controlled oil pump, air-conditioning compressor which can be decoupled, rear axle differential and transfer gearbox with optimised efficiency
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**Fuel consumption in EU**

Total	l/100 km	2.0 – 1.7
Combined power consumption	kWh/100 km	23.5 – 20.3
CO <sub>2</sub> emissions from fuel	g/km	47 – 39
Emission rating		Euro 6d-TEMP

Technical specifications valid for ACEA markets / registration-related data only relevant to Germany in some cases (weights)

<sup>1)</sup> Oil change amount

Fuel consumption, CO<sub>2</sub> emission figures and power consumption were measured using the methods required according to Regulation VO (EC) 2007/715 as amended. The figures are calculated using a vehicle fitted with basic equipment in Germany, the ranges stated take into account differences in selected wheel and tyre sizes as well as the optional equipment. They may change during configuration.

The figures have already been calculated based on the new WLTP test cycle and adapted to NEDC for comparison purposes. In these vehicles, different figures than those published here may apply for the assessment of taxes and other vehicle-related duties which are (also) based on CO<sub>2</sub> emissions.

For further details of the official fuel consumption figures and official specific CO<sub>2</sub> emissions of new cars, please refer to the "Manual on fuel consumption, CO<sub>2</sub> emissions and power consumption of new cars", available at sales outlets, from Deutsche Automobil Treuhand GmbH (DAT), Hellmuth-Hirth-Str. 1, 73760 Ostfildern-Schramhausen and at <https://www.dat.de/co2/> free of charge.