

Specifications.

BMW i8 Roadster.



BMW i8 Roadster		
Body		
No of doors/seats		2 / 2
Length/width/height (unladen)	mm	4689 / 1942 / 1289
Wheelbase	mm	2800
Track, front/rear	mm	1644 / 1721
Ground clearance	mm	115
Turning circle	m	12.3
Axle load distribution (unladen) f / r	% / %	49 / 51
Weight, unladen, to DIN/EU	kg	1595 / 1670
Max load to DIN	kg	305
Max. permissible weight	kg	1900
Max. axle load, front/rear	kg	920 / 1040
Height of centre of gravity	mm	< 460
Luggage comp capacity	l	88
Air resistance	Cd x A	0.28 x 2.15
Power unit		
Drive concept		Hybrid-specific all-wheel drive: combustion engine sends power to the rear wheels, electric motor sends power to the front wheels
Maximum system output	kW/hp	275 / 374
Petrol engine		
Engine technology		BMW TwinPower Turbo technology: Highly turbocharged engine, High Precision Direct Injection, VALVETRONIC fully variable valve timing
Config / no of cyls / valves		In-line / 3 / 4
Effective capacity	cc	1499
Stroke / bore	mm	94.6 / 82.0
Compression ratio	:1	9.5
		Min. RON 91
		Data on rated output and fuel consumption is based on RON 98
Fuel		
Output	kW/hp	170 / 231
at	rpm	5800 – 6000
Torque	Nm	320
at	rpm	3700
Fuel tank capacity	l	30, optional: 42
Electric motor		
Motor technology		BMW eDrive technology: Hybrid synchronous electric motor with power electronics, integrated charging module and generator function for energy recuperation
Max output	kW/hp	105 / 143
at	rpm	4800
Rated output	kW/hp	75 / 102
at	rpm	4800
Torque	Nm	250
Recuperation output	kW	60
High-voltage battery		
Storage technology		Lithium-ion
Voltage	V	355
Battery cell capacity	Ah	34
Energy capacity (gross)	kWh	11.6
Charging time for 80 % charge		< 2 h at 3.6 kW (16 A / 230 V)
Charging time for 100 % charge		< 3 h at 3.6 kW (16 A / 230 V)
Charging time for 100 % charge		< 4.5 h from domestic power socket (10 A / 230 V)

BMW i8 Roadster		
Driving dynamics		
Steering		Electric Power Steering (EPS)
Steering ratio, overall	:1	16.0
Tyres, front/rear		195/50 R20 93W XL / 215/45 R20 95W XL
Rims, front/rear		7J x 20 forged aluminium / 7.5J x 20 forged aluminium
Transmission		
Type of transmission: combustion engine		6-speed automatic
Type of transmission: electric motor		2-speed automatic
Performance		
Power-to-weight ratio (DIN)	kg / kW	5.8
Output per litre: petrol engine	kW / l	113.3
Acceleration 0–100 km/h	s	4.6
Acceleration in 4th/5th gear 80–120 km/h	s	3.5 / 4.1
Top speed	km/h	250 (electronically governed)
Top speed (electric)	km/h	120
Total range*	km	440 (600 with optional 42-litre tank)
Electric range*	km	53
Fuel consumption / emissions in the EU cycle*		
Fuel consumption combined	l/100 km	2.0
CO ₂ emissions combined	g/km	46
Electricity consumption combined	kWh/100 km	14.5
Emission rating		EU6d-TEMP

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

The values for fuel consumption, CO₂ emission, energy consumption and range shown were determined in the standardized test cycle according to the European Regulation (EC) 715/2007 in the version applicable at the time of type approval. The figures refer to a vehicle with basic configuration in Germany and the range shown considers optional equipment and the different size of wheels and tires available on the selected model and may vary during the configuration.

The values are already based on the test cycle according to the new WLTP regulation and are translated back into NEDC-equivalent values in order to allow a comparison between vehicles. With respect to these vehicles, for vehicle related taxes or other duties based (at least inter alia) on CO₂-emissions the CO₂ values may differ to the values stated here.