

Technical Specifications. BMW i3.



		BMW i3	BMW i3 (Range Extender)
Body			
Layout		CFRP body shell, Aluminium chassis	
No of doors / seats		5 / 4	5 / 4
Length	mm	3999	3999
Width	mm	1775	1775
Height (with roof fin)	mm	1578 (1597)	1578 (1597)
Wheelbase	mm	2570	2570
Turning circle	m	9.86	9.86
Front / rear overhang	mm/mm	707 / 722	707 / 722
Ground clearance	mm	140	140
Luggage compartment volume	ltr	260 – 1100	260 – 1100
Tank capacity	ltr	0	9
Weight, unladen, according to DIN / EU	kg	1195 / 1270	1315 / 1390
Max permissible weight / load	kg / kg	1620 / 425	1730 / 415
Weight distribution (unladen)	% f / r	47 / 53	44 / 46
Air resistance (C _d x A)	– / m ²	0.29 / 2.38	0.30 / 2.38
Electric motor			
Type		BMW eDrive technology: Hybrid synchronous motor with integrated power electronics, charger and generator mode for recuperation	
Peak-Output	kW (hp)	125 (170)	125 (170)
Permanent Output	kW (hp) / min-1	75 (102) / 4800	75 (102) / 4800
Torque	Nm / min-1	250 / 0	250 / 0
Recuperation	kW	up to 50	up to 50
High-voltage battery			
Rated voltage	V	360	360
Energy capacity (gross/net)	kWh	22.0/18.8	22.0/18.8
Storage technology		Lithium-ion	Lithium-ion
Combustion engine			
Torque	Nm	–	55
Config / No of cyls / Valves per cyl		–	in-line / 2 / 4
Capacity	cm ³	–	647
Stroke / bore	mm/mm	–	66 / 79
Output / at rpm	kW/hp/ rpm	–	28 (38) / 5000
Torque / at rpm	Nm/ rpm	–	56 / 4500
Compression ratio / poss fuel (recommended)	:1/–	–	10.6 / RON87-98 (RON95)
Exhaust standard / fuel		Electric Vehicle	EU6 / RON 95
Driving dynamics			
Drive concept		Rear-wheel drive	
Front suspension		Single-joint MacPherson spring strut with anti-dive; Aluminium	
Rear suspension		Five-link axle directly mounted to the Drive module; Aluminium	
Tyres front / rear		155/70 R19 / 155/70 R19	155/70 R19 / 175/65 R19
Rims front / rear		5J x 19 light-alloy / 5J x 19 light-alloy	5J x 19 light-alloy / 5.5J x 19 light-alloy
Steering			
		Electric steering (EPS); ratio 14,2:1	
Transmission			
		Automatic, single speed with fixed ratio 9,7:1	
Brakes			
		Ventilated disk brakes front / rear	

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Performance			
Power-to-weight ratio (DIN)	kg/kW	9.6	10.5
Acceleration 0–100 km/h	s	7.2	7.9
0–60 km/h	s	3.7	3.9
80–120 km/h	s	4.9	5.5
Top speed	km/h	150	150
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Range in everyday driving			
(Comfort mode)	km	up to 160	up to 300
(most efficient driving mode)	km	up to 200	up to 340
Range in EU cycle			
(Comfort mode)	km	190	170
Charging times (for 80% charge)		< 30 min at 50 kW DC charger; ~ 8 h at domestic household socket (10A/240V)	
Consumption in EU cycle			
Electric energy	kWh / 100 km	12.9	13.5
Fuel / CO ₂ *	ltr / 100 km / g	0	0.6 / 13

Specifications apply to ACEA markets; data relevant to homologation applicable in part only to Germany (weight)

* Based on EU cycle calculation regulation for vehicles with range extender.