

1. Technical specifications. BMW i8.

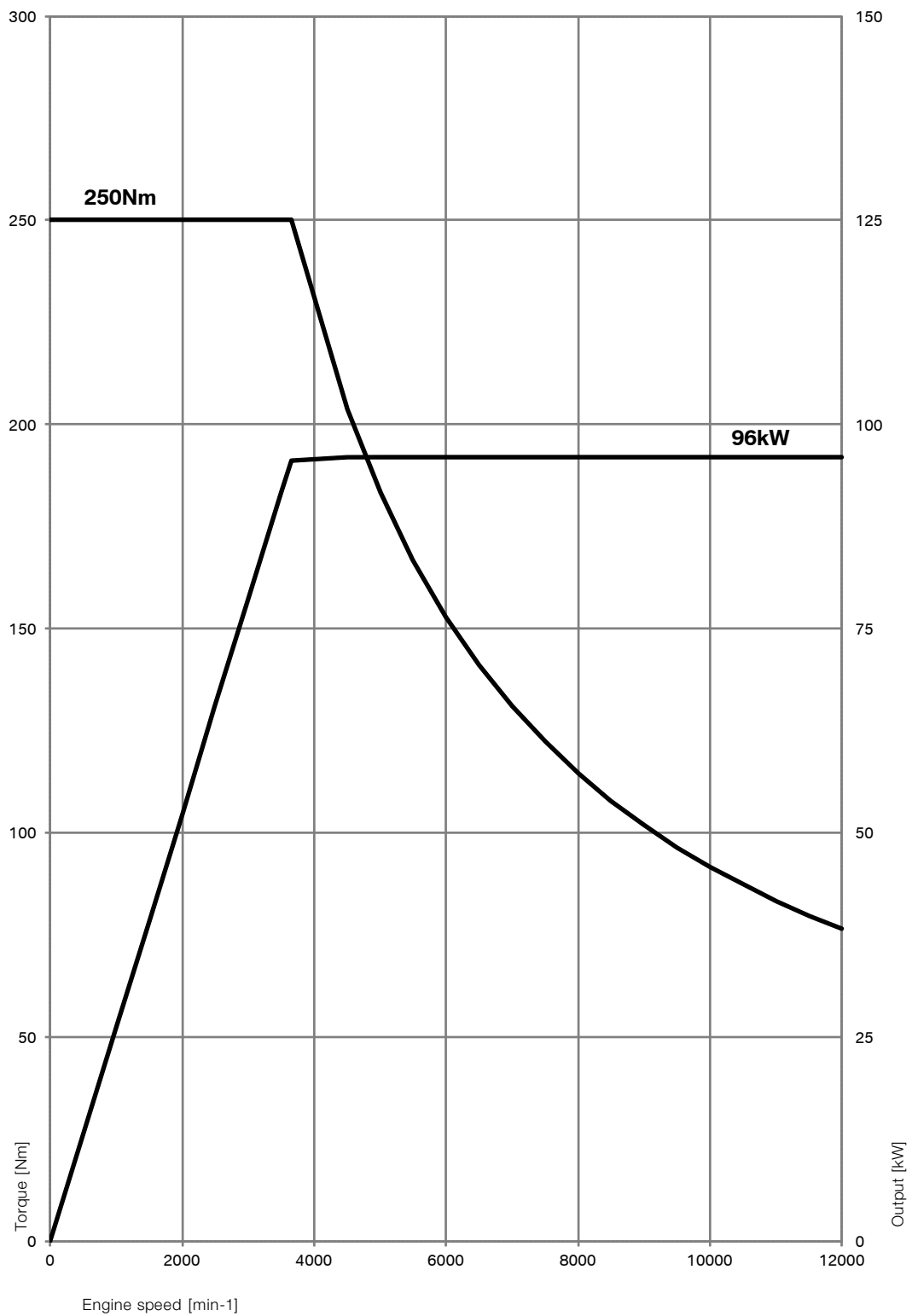


BMW i8		
Body		
Construction		CFRP passenger cell, aluminium chassis
No. of doors/seats		2 / 4
Length/width/height (unladen)	mm	4689 / 1942 / 1293
Wheelbase	mm	2800
Track front / rear	mm	1644 / 1721
Ground clearance	mm	117
Turning circle	m	12.3
Axle load distribution (unladen) front / rear	% / %	49 / 51
Height of centre of gravity	mm	< 460
Kerb weight (DIN / EU)	kg	1485 / 1560
Max. load (DIN)	kg	370
Luggage compartment	ltr	154
Air resistance C _d x A	- / m ²	0.26 x 2.15
Drive system		
Drive concept		Hybrid-specific all-wheel drive, combustion engine driving the rear wheels, electric motor driving the front wheels
System output	kW / hp	266 / 362
Combustion engine		
BMW TwinPower Turbo: High Precision Direct Petrol Injection, VALVETRONIC fully variable valve control and supercharging		
Config. / no. of cyls / valves		In-line / 3 / 4
Effective capacity	cm ³	1499
Stroke / bore	mm / mm	94.5 / 82.0
Compression ratio	:1	9.5
Fuel grade	min. RON 91	data for rated output and fuel consumption are based on RON 98
Output	kW / hp at rpm	170 / 231 at 5800
Torque	Nm at rpm	320 at 3700
Tank capacity	ltr	30, optional 42
Electric motor		
BMW eDrive technology: hybrid synchronous motor with power electronics, integrated charging module and generator mode for recuperation		
Max. output	kW / hp at rpm	96 / 131 at 4800
Rated output	kW / hp at rpm	75 / 102 at 4800
Torque	Nm at rpm	250 at 0
Recuperation output	kW	60
High-voltage battery		
Storage technology		Lithium-ion
Voltage	V	355
Capacity gross / net	kWh	7.1 / 5.2
Charging time for 80% charge	< 2h at 3.7kW (16A/230V)	
Driving dynamics		
Steering / ratio	- / :1	Electric rack-and-pinion steering (EPS) / 16.0
Front axle	Aluminium double track control arm with anti-dive, separate lower level with wishbone and tie rod	
Rear axle	Aluminium five-arm geometry, directly connected	
BMW i8		

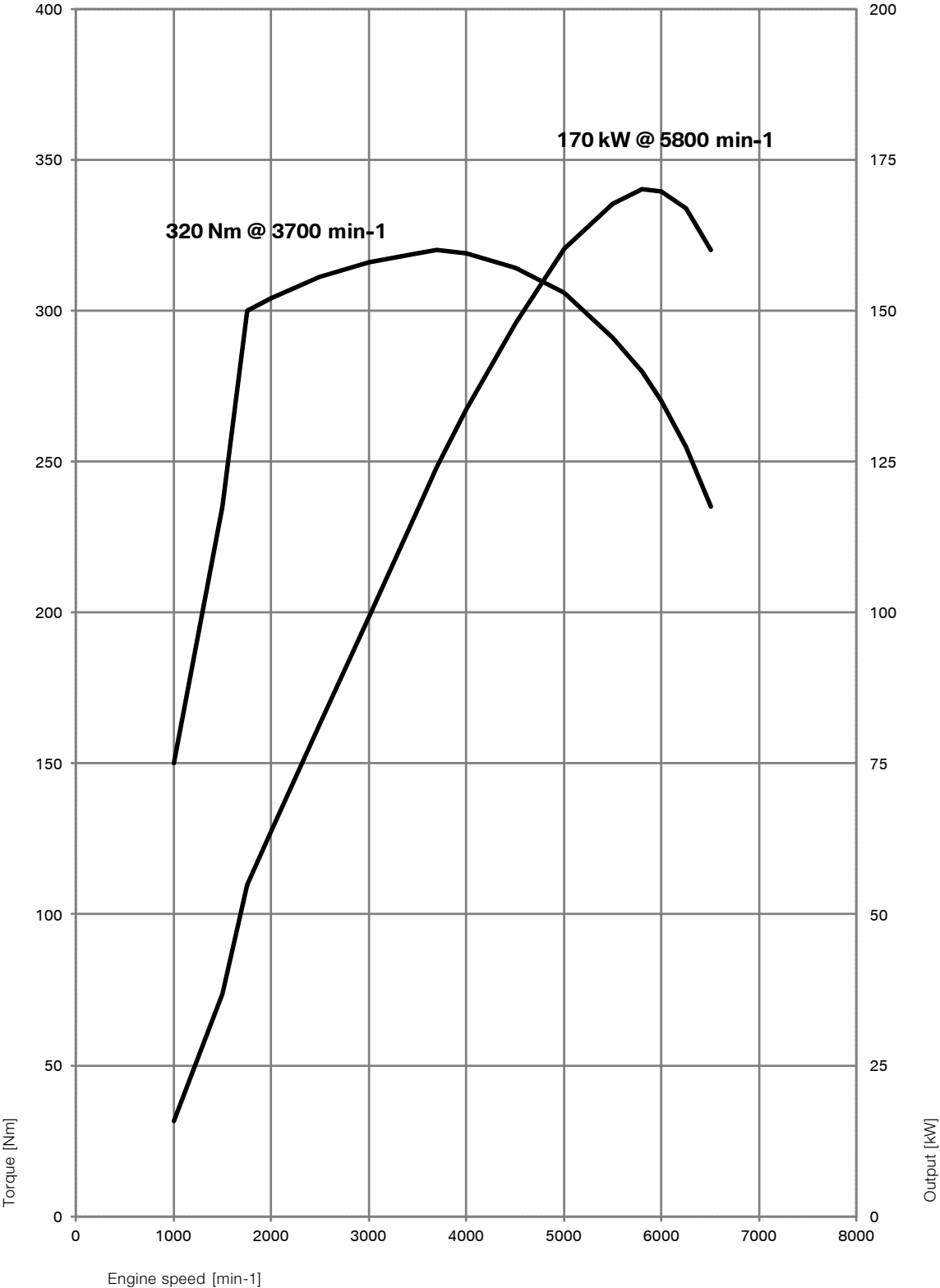
Tyres front / rear		195/50 R20 215/45 R20
Rims front / rear		7J x 20 forged aluminium 7.5J x 20 forged aluminium
Front brakes		4-piston fixed calliper, disc 340mm x 29.2mm, inner-vented
Rear brakes		1-piston floating calliper, disc 340mm x 19.2mm, inner-vented
Driving stability systems		DSC, CBC, DBC, ADB-x, FAV, DTC
Transmission		
for combustion engine (ratios)		6-speed automatic transmission (4.459, 2.508, 1.556, 1.142, 0.851, 0.672)
	:1	
for electric motor (ratios)		2-speed automatic transmission (11.3, 5.85)
	:1	
Performance		
Power-to-weight ratio (DIN, unladen)	kg/kW	5.6
Specific output (combustion engine)	kW/ltr	113.3
Acceleration 0 - 100 km/h	s	4.4
80 - 120 km/h	s	2.6
0 - 1000 m	s	22.8
Top speed	km/h	250 (electronically limited)
Top speed electric	km/h	120
EU cycle combined range	km	440 (600 with optional 42-litre tank)
EU cycle electric range	km	37
Consumption / emissions in EC cycle		
Fuel consumption	ltr/100 km	2.1
CO ₂ emissions from fuel	g/km	49
Electric power (in addition to fuel consumption)	kWh/100 km	11.9
Emission rating		EU6

All data apply to European ACEA markets. They may vary for other countries.

2. Output and torque diagram.



Electric motor



Combustion engine

3. Exterior and
interior dimensions.

