

4. Specifications.



BMW C evolution		
Drive		
Nominal output	kW/hp	11/15
Maximum output	kW/hp	35/47.5
at rpm	rpm	4,650
Torque	Nm	72
at rpm	rpm	0 to approx. 4,500
Type	Drivetrain swingarm with liquid-cooled electric motor; permanent magnet synchronous motor with surface magnets, max. torque 9,200 rpm	
Electrical system		
Drive battery	Air-cooled lithium-ion high-voltage battery with auxiliary cooler	
Battery capacity	kWh	8 (3 modules, 12 cells each with 60 Ah)
Battery voltage (nominal)	V	133
Charge capacity	kWh	3 (built-in charger)
Charge time	At 220V / 12A charge current: approx. 4h for 100%; 2:45 h for 80% At 220V / 16A charge current: approx. 3h for 100%; 2:15h for 80%	
Secondary battery	V/Ah	12 / 8
Generator	W	DC-DC transformer integrated into the charger, 475
Headlights	High/low beam: 12V/55W, halogen; LED daytime running light/sidelight	
Rear light	LED brake/rear light	
Power transfer gearbox		
Secondary drive	Hybrid chassis with load-bearing battery casing made from diecast aluminium, bolted-on steering head support and rear frame made from steel tubing	
Overall reduction ratio	1 : 8.28	
Chassis		
Frame type	Tubular steel frame, load-bearing motor	
Front suspension	Upside-down telescopic fork, Ø 40 mm	
Rear suspension	Single-sided swing arm with directly controlled spring strut; spring preload manually adjustable in 7 stages	
Spring travel front/rear	mm	120/115
Wheel castor	mm	95
Wheelbase	mm	1,594
Steering head angle	°	65.9
Brakes	front	Hydraulically actuated double-disc brake, Ø 270 mm, twin-piston floating calliper
	rear	Hydraulically actuated single-disc brake, Ø 270 mm, single-piston floating calliper
ABS	BMW Motorrad ABS as standard	
Rims	Cast aluminium	
	front	3.50 x 15"
	rear	4.50 x 15"
Tyres	front	120/70 R15
	rear	160/60 R15

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Dimensions and weights		
Length	mm	2,190
Width incl. mirrors	mm	947
Height		
Seat height (without rider)	mm	780
DIN unladen weight, road ready	kg	265
Permitted total weight	kg	445
Riding data		
Top speed	km/h	120 (electronically limited)
Acceleration		
0–50 km/h	s	2.7
0–100 km/h	s	6.2
Range		approx. 100 km commuting
Recuperation		Automatic recuperation when coasting and braking, simulated drag torque ("motor braking"), potential range increase approx. 10–20%