

Technical Data smart fortwo 52 kW

Engine	
Displacement	1 liter / 61 cu inch
Number of cylinders/ configuration	three in-line
Engine block/cylinder head	aluminium
Valves	four per cylinder
Engine capacity	61 cubic inch
Bore	x stroke 2.83 x 3.22 inches
Rated output	52 kW / 70 hp @ 5800 rpms
Max. torque	68 lb ft @ 4500
Oil	3.5 qt (incl. filter)
Coolant	4.5 qt
Fuel delivery	electronic multipoint injection
Recommended fuel	premium unleaded gasoline (min 91 octane)
Federal emissions	BIN5 / ULEV (Cal.)
Power transmission	
Clutch	single-plate dry clutch
Transmission	automated manual five-speed Transmission
Gear ratios:	1st (3.308) 2nd (1.913) 3rd (1.258) 4th (0.943) 5th (0.707)
Reverse	(3.231)
Final drive	(4.529)
Running gear	
Front axle suspension	lower wishbone, McPherson strut, anti-roll bar
Rear axle suspension	DeDion axle, coil springs, telescopic shock absorbers
Brake system	
	dual-circuit brake system with tandem servo assistance
	11 inch diameter disc brakes at front
	8 inch diameter drum brakes at rear
	electronic stability program (esp) with hill start assist
	anti-lock braking system (abs) with electronic brake-force distribution, traction control system, electronic brake assist
Steering	
	rack-and-pinion steering
Wheels and tires (front/rear)	
pure:	steel, with wheel covers
passion:	aluminium wheels
all-season tires on both models	155/60R15 on 4.5Jx15 (front),

	175/55R15 on 5.5Jx15 (rear)
Dimensions and weights	
Wheelbase	73.5 inches
Track width front/rear	50.51 inches/54.53 inches
Length	106.1 inches
Width	61.38 inches
Height	60.71 inches
Headroom	39.7 inches
Legroom	41.2 inches
Shoulder room	48 inches
Hip room	45.4 inches
Passenger volume	45.4 cu. ft.
Turning circle	28.7 ft
Luggage compartment capacity	7.8 (up to beltline)/12 (to roof) cu. ft.
ECE weight without driver	1,808 lbs (cabriolet: 1,852 lbs)
ECE Payload	507 lbs (cabriolet: 463 lbs)
ECE permissible maximum weight	2,315 lbs
Fuel tank capacity (reserve)	8.7 gal (includes 1.3 gal reserve)
Performance	
Maximum speed	90 mph
Acceleration 0–60 mph	12.8 sec
Fuel consumption*	
City/highway (mpg)	40/45 (EPA 2007); 33/41 (EPA 2008)

*Fuel economy estimates were derived in accordance with the Environmental Protection Agency's (EPA) vehicle testing procedures for model year 2008 as specified in 40 C.F.R. pts. 86 and 600 (2007). These estimates are intended for comparison between other vehicles within the same class. Individual drivers' actual mileage will vary depending on how they drive and maintain their vehicles.