TECHNICAL DATA - Electric vehicle *- iOn*

Subject to approval

Summary - 09/2010

GENERAL	Type	100% electric
	Maximum power in kW (bhp) / engine speed (rpm)	47 (64) / 3500 to 8000
	Maximum torque (Nm) / engine speed (rpm)	180 / 0 to 2000
	Drive battery type / capacity (kW.h)	Lithum-ion / 16
	Range NEDC cycle (km)	150
	Tyres Front / rear	145 / 65 R15 -175 / 55 R15
PERFORMANCE	Maximum speed (kph)	130
½ payload	Acceleration (seconds)	
	• 400 m standing start	20,7
	• 1000 m standing start	37,3
	• 0 to 100 kph	15,9
	In-gear acceleration (seconds)	
	• 30 to 60 kph	3,5
	• 80 to 120 kph	13
EMISSIONS	CO_2 emissions (g/km)	0
DIMENSIONS (m)	Overall length	3,474
	Body width to door handles / with door mirrors folded / open	1,475 / 1,594 / 1,792
	Height	1,608
	Wheelbase	2,550
	Front overhang / Rear overhang	0,498 / 0,426
	Front track / Rear track	1,310 / 1,270
WEIGHT (kg)	Kerb weight	1 120
BOOT	Boot volume (dm3)	168
AERODYNAMICS	SCx	0,706

TECHNICAL DATA - *iOn*

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Dimensions, weight, aerodynamics - 09/2010

PEUGEOT

OTHER DIMENSIONS	Surface area of windscreen (m²)	1,16
CAPACITY	Number of seats	4
	Effective length row 2 (mm) [1]	1625
	Width in front seats (mm):	
	• elbows	1260
	• door capping	1240
	Width in rear seats (mm):	
	• elbows	1230
	• door capping	1210
	Front seat travel (mm)	220
WEIGHT (kg)	Kerb weight	1 120
	Kerb weight	1 195
	Maximum gross train weight (GTW)	1 450
	Payload	330
	Maximum permissible load: (MPL)	
	• at the front	640
	• at the rear	810
AERODYNAMICS	SCx drag area (m²)	0,706
	S master torque (m²)	2,130
	Cx aerodynamic coefficient	0,330
	SCz front down force (m²)	0,012
	SCz rear down force (m²)	0,036
WHEELS	Type	Dunlop low consumption
	Material	ALLOY
	Tyres	15"
		145 / 65 R15 -175 / 55 R15
	Front / rear rolling circumference (m)	1,735 / 1,748

[1] From accelerator to rear seats

TECHNICAL DATA - *iOn*

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Motors, battery - 09/2010

PEUGEOT

MOTOR	Type	Reversible electric
		Neodyme, synchronous with permanent magnets
	Position in the vehicle	in front of rear axle
	Weight (kg)	65
	Length (mm)	449
	Continuous output in kW	25
	Maximum power in kW (bhp) / engine speed (rpm)	47 (64) / 3500 to 8000
	Continuous torque (N.m)	65
	Maximum torque (Nm) / engine speed (rpm)	180 / 0 to 2000 rpm
	Maximum engine speed (rpm)	8 500
	Power supply	By inverter according to information from electronic control unit
		330V three phase
	Motor, Inverter and Charger Cooling	Circulation of water via 12v electric pump
	Coolant tank	AT THE REAR
	Radiator with core	At the front under bonnet
BATTERY	Type	Lithium-ion manganese oxide
	Capacity (kW.h)	16
	Number of cells in series	88
	Capacity of one cell (kW.h)	0.187 / 3.75 v
	Maximum voltage of one cell (v)	4,1
	Minimum voltage of one cell (v)	2,75
	Weight of one cell (kg)	1,8
	Weight of battery pack with protections and sealed cover (kg)	230
	Weight of 88 battery cells (kg)	158
	Recharging	
	Normal via household socket power supply / duration	220V alternating / 100% in 6 hours
	Rapid on specific terminal power supply / duration	330V direct / 80% in 30 minutes
	Energy recovery during deceleration	motor in generator mode
	Cooling	by ambient or cooled air
TRANSMISSION	Type	Rear wheel drive
	Reduction gear	reversible
	Reduction ratio:	6.066
	Lubrication	oil

TECHNICAL DATA - *iOn*

Subject to approval

Wheels and suspension, steering, brakes 09/2010

SUSPENSIONS	Front: Type	McPherson type with anti-roll bar
	Rear: Type	Silent block and Panhard rod
STEERING	Type	Rack and pinion
	Power steering	Electric
	Steering wheel turns, lock to lock	3,5
	Turning circle diameter (m):	
	• between walls	9
BRAKES	Order	electric vacuum pump operated brake servo electric
	Equipement	ABS
		electronic brake force distribution wheel by wheel
		emergency brake assist
		anti-skid
		De-activatable dynamic stability control
	Front:	Ventilated discs
	External disc diameter (mm)	247
	Rear:	Drum
	Diameter (mm)	203