Protoscar LAMPO

pure battery EV - technical information

Prototype

Developed & manufactured by Protoscar, CH 6821 Rovio single exemplar, not for sale

Motorization

Electric vehicle (2 electric motors and Li-ion batteries), single gear

Electric motor

Type: Brusa HSM 6.17.12 Hybridsynchron with transaxle gearbox associated with a Brusa DMC524 inverter

Quantity: 2, one on front axle, one on rear axle

Max. power kW (HP) 200 (268) Max. torque (Nm): 0 – 5'000 rpm 440 Cooling water

Batteries

Type: Brusa EVB1 Li battery packs based on prismatic Kokam cells (Li-ion with polymeric electrolyte); **quantity: 2** Total rated energy (kWh) 33,6

Caracteristics of each battery pack:

Rated energy (kWh) 16,8 Capacity 0.5C (Ah) 40 Open circuit voltage (V) 400 Max. continuous discharge current (A) 200 Max. peak discharge current (A) 400 Max. charging current (A) 80 Number of cells 108 Weight (kg) 140 Full charge at 32A (h) 7 Cost of energy (CHF/100km) ca. 2.40 Cooling water Estimated life time @ 80% DOD (cycles/km): >800 / >160'000

Battery chargers (on board)

Type: Brusa NLG513; quantity: 2

Power (kW) 2x3,3 Cooling air

DC/DC converter for the on board devices

Type: Brusa BSC624-12V

Structure

Tubular steel chassis, composite material body

Unique features

Four wheels drive designed in order to allow the maximum regeneration and to ensure more driving safety

Intelligent charging system: some charging parameters like the earliest charging time/last charging stop, max. charging yield and charging status to be achieved by the end of charging will influence the on board chargers

External charging status LED, Integrated charging cable

Range estimator: GPS based device calculating different parameters like the remaining range (considering elevations etc.) and the notification of the closest charging stations







Consumption and emissions

Energy consumption (Wh/km) 150 WtW emissions (g CO₂) 0

Performances

Max. speed (km/h) ca. 200
Acceleration: 0 – 100 km/h (sec.) ca. 5
Range (km) 200

More information:

Protoscar

CLEANCAR SHAPERS

Protoscar SA

Via Ronchi CH-6821 Rovio

Tel. +41 91 649 60 60 Fax +41 91 649 72 70

www.protoscar.com

Protoscar LAMPO

pure battery EV - model information

_					
1 1.	m	en	01		20
D.		œ	.51	u	1.5

 Length (mm)
 4'315

 Width (mm)
 1'865

 Height (mm)
 1'203

 Wheelbase (mm)
 2'415

Seats

Number of seats:

2

Weight

 Weight (empty, kg)
 1'380

 Load (kg)
 270

 Weight (full load, kg)
 1'650

Wheels

Tires 245/45 R18

Interior equipment

Multifunction touch screen for the control of the car functions

Driving style settings

Sport steering wheel

Electrically heated and cooled seats

Electric heating

Cruise control

Power windows and lock

Electric brake button on steering wheel

GPS based range estimator

Intelligent charging system

Range estimator

GPS navigation system

Remote photovoltaic plant

Type: photovoltaic laminate by United Solar Ovonic with amorphous silicon cells

Surface (m²) 260 Rated power (kW) 16 Energy per year (kWh/year) 16'800







SWISS ASSOCIATION FOR ELECTRIC AND EFFICIENT VEHICLES

Pavillonweg 3 CH - 3001 Bern

Tel. +41 31 560 39 93 Fax +41 31 560 39 91

info@e-mobile.ch, www.e-mobile.ch



