

Holden Barina Electric Conversion

THE CAR WAS -

Model: 1985 Holden Barina (MB)
5 door hatch. Made by Suzuki in Japan
(Suzuki Cultus (Swift) rebadged)

Original Engine:

4 cylinder, 1300cc petrol, 50kW, 104Nm.



NOW ! -

Electric Motor (AC): Netgain HyPer 9DHV - SRIPM
(Synchronous Reluctance Internal Permanent Magnet)

Power Output: 88kW (120BHP)

Torque Output: 220Nm (162 lbs-ft)

Motor Controller: SME Hyper-Drive X144

Batteries: 78 WESTART NMC 75Ah Modules, 2P 39S config.
(Lithium, Nickel, Manganese, Cobalt Oxide)
234 25Ah pouch cells (3 per module).

Pack Voltage: 150 Volts, Pack Capacity: 22kWh

Motor to gearbox adapter: Two piece steel adaptor plate
and spacer.

Custom design by Hammat Precision Engineering

Motor to gearbox input shaft coupler:

Two piece steel coupler.

Custom design by Hammat Precision Engineering

Clutch: Removed.

Gearbox: Using original 5 speed gearbox. Mainly using
2nd and 4th gear, and reverse

DC-DC Converter: TC Charger TDC144V/12V, 144V-12V 30Amp
to keep the 12V accessory battery topped up.

Vacuum Pump: MES-DEA 70/6E, 12V electric vacuum pump for
the power brakes.

BMS: Batmon BMS by EV Power - Western Australia

Electronics: Custom design by Kestar Enterprises.

Range: Approx. 120 Km

Top Speed: 90 km/hr plus

Economy: 1.8c/km (120Wh/km)
(equiv: 1.2L/100km @ \$1.50/L)



Original conversion: 2008-2010

Major updates: 2021



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