



- Reformed methanol fuel cell vehicle
 - Zero particle emission
 - No noise and vibrations
- 800km range with FC range extender
 - 3min refueling

Methanol hybrid. H3 NV200 is a multi purpose vehicle for up to five persons and is intended for both private and professional use. The vehicle is a reformed methanol fuel cell hybrid using a battery pack to power its electric motor to run the vehicle while the fuel cell continuously charges a battery. The methanol fuel is converted on-board into hydrogen and directly feed into the fuel cell which produces electrical power. H3 NV200 is based on a factory-built electric car already on the market and is aftermarket-rebuilt by Serenergy as a fuel cell hybrid.

Urban range extender. The fuel cell enables extended operation cycle under varying driving patters compared to the normal all battery powered vehicle. This makes the vehicle perfect for urban and sub-urban operation as a normal car with combustion engine. The fuel cell caters both the average energy consumption of the vehicle and also supplies comfort heating for the cabin when needed.

Specifications

Engine & Drivetrain

Engine type	Electric AC Synchronous motor
Drivetrain layout	Front motor, front wheel drive
Transmission type	Automatic
Max. engine power [kW/PS] ¹⁾	80/109
Max. torque [Nm] ¹⁾	254

Performance (BEV)

Single charge range [km]	170 (NEDC)
Electricity consumption [Wh/km] ²⁾	165
Top speed [km/h]	120
0-100km/h [s]	14
Normal charge (220V)	8 hrs (full charge)
Quick charge (400V)	30min (80% charge)

Battery

Type	Lithium-ion
Voltage [V]	360
Capacity [kWh]	24

Fuel Cell

Max. power output [kW]	5
Net electric efficiency [%]	40 - 45
Fuel type	60% methanol/40% vol water
Fuel consumption [L/kWh]	0,8 - 0,9

Performance (Hybrid)

Range battery / FC [km] (urban)	550	800
Electricity consumption [Wh/km] ³⁾	96	
Mileage [km/L] ³⁾	12,5	
Top speed [km/h]	120	
0-100km/h [s]	14	
Fuel tank [L]	50	70
Fueling time	3min	
Noise [dB]	58	

Weight & Dimensions

Minimum curb weight (Hybrid) [Kg]	1641 (1791)
Gross Vehicle Weight (PTW) [Kg]	2220
Overall length [mm]	4560
Overall width [mm]	2011
Overall height [mm]	1858

Capacities

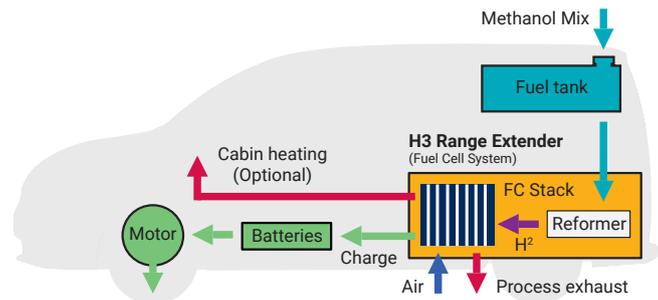
Seating capacity	5
Cargo space (2. row folded) [m3]	2,3 (3,2)

¹⁾ In accordance with: ¹⁾ 1999/99/EC, ²⁾ UN/ECE Regulation 101.

³⁾ Urban driving pattern.

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Please contact us at sales@serenergy.com for more information, pricing and availability. Serenergy A/S reserves the right to change specifications and descriptions without notice.



The operating principle of the H3 NV200 fuel cell powertrain (positions and proportions of system elements are for explanatory purposes only).



Reformed Methanol Fuel cell unit only partly visible under car



Spill-free methanol fuel filling behind right-hand front door. Fuel tank is placed at the bottom of car.