

Main bus features

- Fuel cell *Triple Hybrid*® bus
- No combustion engine on board
- Optimised hybrid configuration enables the 48 kW Fuel Cell system to power the full sized city bus

Technical Data:

- Length: 12m
- Passengers: 28 + 30 (standing)
- Max. weight (GVW): 18 tonne
- Max. speed: 65 km/h
- Rated power: 120 kW
- Hydrogen: 20 kg, 350 bar
- Refueling time: < 10 min
- Autonomy in urban drive cycle: > 250 km
- Operation: from mid 2009 in Prague/
Neratovice (CZ)

more than just fuel cells



- ZERO EMISSION
- LOW NOISE
- HIGHEST EFFICIENCY

Main benefits

For passengers:

- No emissions
- Low noise level internally and externally
- Low vibrations
- Smooth acceleration, no gear shifting

For bus operators:

- 50 % energy efficiency
- Brake energy recovery
- Low-maintenance electric drive technology
- Differentiation through new eco-friendly technology

Partner:



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12 m City Bus with PM fuel cell *Triple Hybrid*® drive



V0603.0210.02

PM
PROTON MOTOR
Proton Power Systems plc Group

PM Basic A 50

12 m City Bus

Proton Motor *Triple Hybrid*[®] system

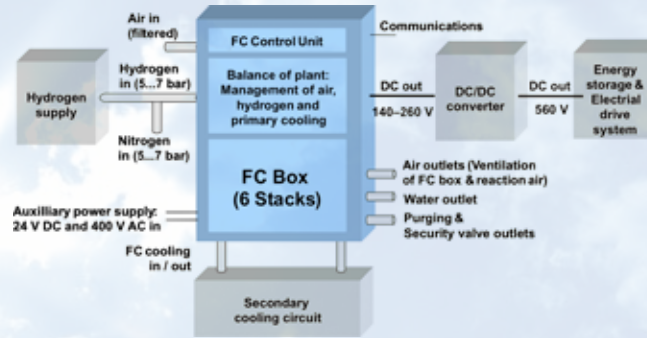


Fuel Cell System integrated into the bus

Proton Motor fuel cell system for buses and commercial vehicles

- Highly efficient generation of electrical energy from hydrogen
- Ready for OEM integration, contains the balance of plant components which are vital for a safe and efficient operation of the fuel cell system.

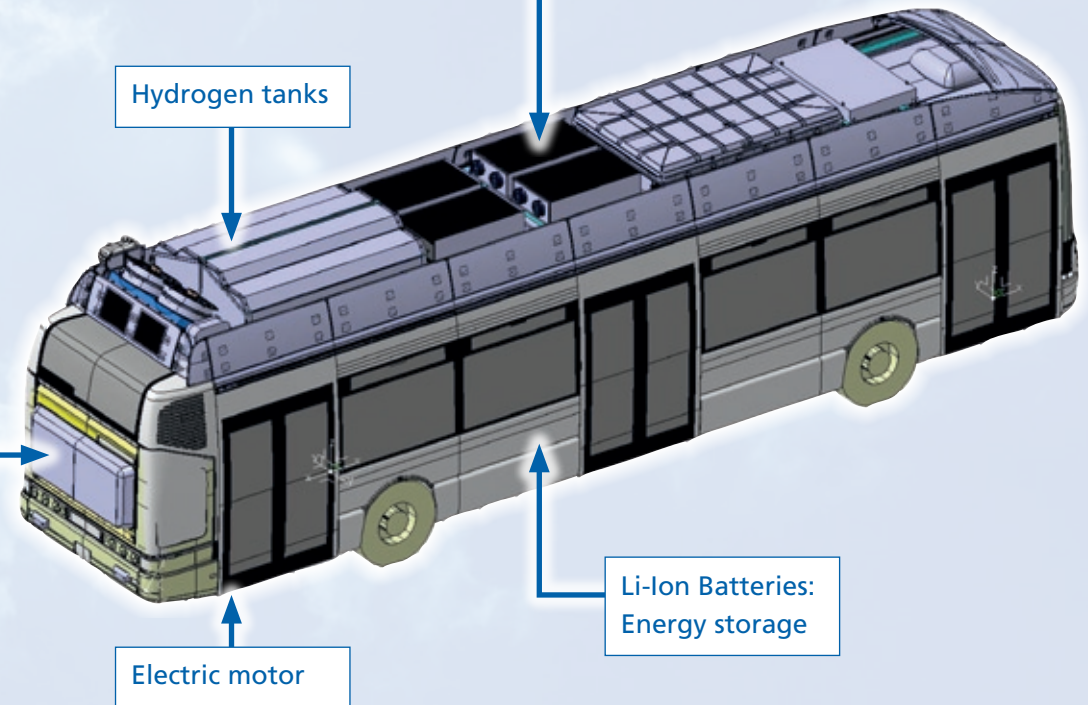
Interfaces of PM Basic A 50 maritime



Technical Data:

- Rated power 48 kW
- Fuel Hydrogen 5.0, 7 bar
- Voltage/current output 140–260 V DC, < 350 A
- Max. system efficiency > 50 %
- Operating temperature < 70° C
- Weight ca. 600 kg
- Size (max.) 1700x915x 1125 mm³

Triple Hybrid System



Fuel Cell System PM Basic A 50

