



## FCgen®-H2PM Power Shelter

The FCgen®-H2PM Power Shelter is a place, plug'n play, solution and is designed by Ballard to contain up to 10kW of FCgen®-H2PM backup power, based on the FCgen®-H2PM 5.0kW fuel cell module and UltraCap module in a 19" rack. The fuel cell system and the hydrogen storage are fully integrated in two separated rooms of the Power Shelter.

The FCgen®-H2PM Power Shelter is constructed of corrosion resistant steel with high quality exterior zinc and paint coating. The Power Shelter comes as standard with a concrete foundation and weighs 2450 kg without the FCgen®-H2PM fuel cell modules, UltraCaps and other options. The Power Shelter is built on a concrete foundation and can be installed directly on a gravel compaction. Cabling is done through the foundation. Installation clearance requirements are to be determined by the customer. Note, EN 62282-3-300 Stationary Fuel Cell System Installation. More FCgen®-H2PM Power Shelters can be coupled in parallel to meet power output requirements.

The FCgen®-H2PM Power Shelter Solution is intended to be installed as a backup DC power supply to the rectifiers installed e.g., in a telecommunications system. The FCgen®-H2PM System senses the voltage at its power terminals and will start when the voltage drops to the user-defined start voltage.

FCgen®-H2PM Power Shelter is prepared for a closed loop cooling (separation by a heat exchanger of ambient and heated air inside the shelter) and it is recommended to include a cabinet heater, to avoid freezing or condensation inside the enclosure.

## Product Specifications

Specification	Value
Shelter (WxDxH)	2800 x 1400 x 2750 mm
Shelter Weight	2500 kg with standard concrete foundation (light weight steel foundation option is 1265 kg)
Color	RAL 7035
Corrosion Class	C3 Medium
Electrical energy storage	Max capacity 500kWh (footprint 1400mm x 1400mm)

  

Options	Description
AirBox	5kW or 10kW (balanced exhaust for the fuel cell system)
Heater	550W, 230VAC
HEX90	90W/K (closed loop room cooling)
CC3000	HEX90 controller with Web interface
Detachable roof	On request
Light weight steel foundation	Concrete foundation is standard
Custom color	On request