

**BALLARD™**

**FCgen®-H2PM**

## UltraCap designed for, FCgen®-H2PM 5.0kW



The UltraCap makes battery-free bridging energy available for the FCgen®-H2PM UltraCap 5.0kW fuel cell system and contributes to the high reliability of the fuel cell solution.

The UltraCaps complement the fuel cell system, and can sustain about one million discharge and recharge cycles.

The UltraCap unit is designed to ensure instant backup power to the DC line, from the time when the grid fails until the time when fuel cell stacks are in full production, supplying the full power demand from the customer loads - maximum 5.0kW. The UltraCap unit consists

of ultracapacitors and a charger, eliminating the need for external batteries and rectifier. The UltraCap unit is mounted in a 19" rack and connected to the fuel cell Controller Unit with an AC line, two DC lines and a safety line. The Power Indicators on the front panel of the UltraCap unit indicate if the ultracapacitors are charged.

**Charger:** The 100W bridge power charger charges the ultracapacitors to the specified voltage and maintains that voltage during standby mode. The charger is powered from the grid via the Fuel Cell Controller Unit.

## Product Specifications

Specification	Value
UltraCap Unit (WxDxH)	500 x 488 x 247 mm (19.69" x 19.21" x 9.72")
UltraCap Weight	30 kg (66 lbs.)
Enclosure Material	Alu-Zink Coated Sheet Metal and Aluminum
Indoor Installation Environment	Pollution degree 2
Temperature Range	+5°C to +46°C (+41°F to +115°F) Indoor Temperature
Storage Temperature Range	-40°C to + 70°C (-40°F to +158°F)
Relative Humidity	5%-95% Non-Condensing
Max. Voltage	65 Vdc
AC Power Input	110/230 VAC (90-264 VAC) 50/60Hz
Standby Power Consumption	29W (AC)
Max. Charging Power	100W (AC)
Capacitance	166 F
Certifications	CE