

BALLARD™

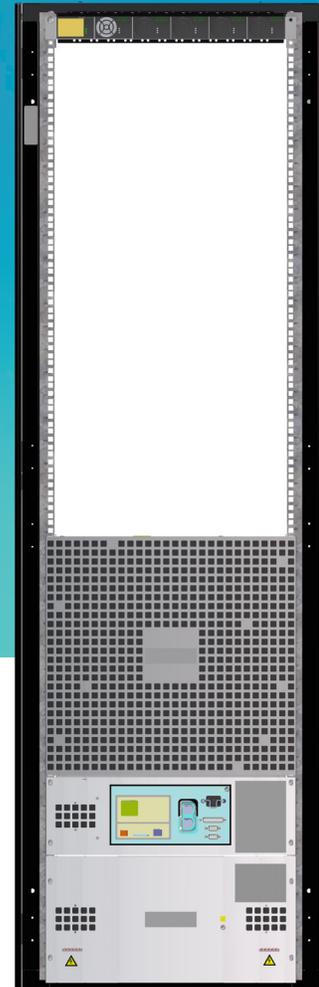
FCgen®-H2PM

FCgen®-H2PM One Rack, 5.0kW

The FCgen®-H2PM 19" rack solution designed by Ballard is a fully integrated factory tested rack solution for fuel cell modules, rectifier modules and inverters (optional).

The one rack solution provides 5.0kW backup power per rack. If more power is needed Ballard also offers a One Rack 10.0kW solution.

Service is carried out from the front of the rack, and it is therefore very suitable for e.g. telecommunication market.



One Rack 5.0kW, FCgen®-H2PM 5.0kW/48VDC/UC – Indoor

Hardware configured for 1 x FCgen®-H2PM 5.0kW with ultracap, rectifier modules and Smart pack controller for SNMP alarm management.
Factory wired for Inverter or delivered with inverter for AC applications.

During normal operation, the Rectifier and Inverter provides both AC and DC power with a total load of up to 4.2kW AC or 4.5kW DC.

Integrated DC bus is actively cooled with fuses for power management and alarm handling.

In case of AC (mains) failure, the DC power is supplied from the fuel cell system to take over the DC load. Optional inverter for conversion to AC.

True conversion system: AC input is first rectified, then fed to the 48V bus supplying the installed inverter (optional) for AC output.

Product Specifications

Specification	Value
Max. Power Rating	4.5kW DC / 4.2kW AC
Nominal Voltage	48 Vdc and 230/400 VAC (1, 2, 3 Phases)
RACK 19" (WxDxH)	600 x 600 x 1920 mm (23.62" x 23.62" x 75.59")
Weight	75 kg (165 lbs.)
Rack color	RAL9005
Power Connections	
AC IN	5 pole 16A CEE 3F+N+P
DC OUT	Rema Female 320A (200A fuse)
DC OUT ventilation	PowerCON socket + plug (12A fuse)
AC OUT (Inverter option)	4 pole 16/32A CEE 3F+N
Alarm Connections	
SNMP	Eth. RJ45 for SNMP
Dry Contacts (x6)	Cable
Rack HW configured for	
Fuel cell	FC Unit, FCgen®-H2PM 5.0kW/48V
Alarm controller (Dry Contact/SNMP)	Eltek Smart Pack S
Rectifier	5 x 1800W Eltek Flat Pack S
Inverter (option)	1 - 3P CE+T Media or Bravo
Others	
Service Power Connection	Rema Female 320A (200A fuse)
Service Com. Connection	1 x Eth. RJ45
Efficiency	Up to 95.8% (Rectifier)
AC power input	230 VAC (90-264 VAC) 50/60Hz
Standby Power Consumption	3.6W (cooling fans)
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
Certifications	CE