

BALLARD™

FCgen®-H2PM

FCgen®-H2PM One Rack, 10kW

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 is scalable with up to 10kW backup power per rack. If more power is needed, it is easy to connect an extra rack solution.

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



One Rack 10kW, FCgen®-H2PM 5 kW/48VDC/ UC. Upgradeable for 10kW - Indoor

Hardware configured for 2 x FCgen®-H2PM 5 kW with ultracap, master controller, rectifier modules and Smartpack 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 8.5kW AC or 9kW 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 systems 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	9kW DC / 8.5kW AC
Nominal Voltage	48 Vdc and 230/400 VAC (1, 2, 3 Phases)
RACK 19" (WxDxH)	600 x 600 x 2200 mm (23.62" x 23.62" x 86.61")
Weight	97 kg (214 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	2 x FC Unit, FCgen®-H2PM 5.0kW/48V
Fuel cell Controller	Controller, FCgen®-H2PM 5.0kW/48V
Alarm	Dry Contacts/SNMP via Eltek Smartpack S
Rectifier	5 x 1800W Eltek Flatpack S
Inverter (option)	1 – 3P CE+T Media or Bravo
Others	
Service Power Connection	Rema Female 320A (200A fuse)
Service Com. Connection	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