

STATIONARY FUEL CELL SOLUTIONS

GENSET AND BACKUP POWER SYSTEMS from 100 kW to 2 MW

Fuel cell power generator as an alternative to diesel gensets and batteries, providing clean, reliable and long-duration power

Main features

- Reliable and quick start PEM fuel cell technology
- Power range : from 100 kW to 2+ MW
- Modular and scalable
- Indoor / Outdoor applications
- Uninterruptible Power Supply (UPS) in option
- Continuous power with rechargeable hydrogen supply
- Cogeneration in option : heat and refrigeration
- Tropicalization experience
- Predictive maintenance tool
- Operational time before overhaul : 25,000 hours



OUR PRODUCT : FC-RACK™



BENEFITS



Zero-emission



Low maintenance



Reliable & Efficient



Plug and Play



e-Monitoring tool



Containerized

Electrical performance

- Maximum Net Power available (kW)
- Voltage range (V)
- Operating maximum current (A)
- Maximum efficiency

FC-RACK™ 160

FC-RACK™ 180

FC-RACK™ 200

168	187	207
352 - 672	396 - 756	440 - 840
470	470	470
	57%	

Mechanical structure

- Dimensions L x W x H (mm)
- Weight (kg)

	2200 x 700 x 2200	
1200	1230	1260

Hydrogen

- Purity requirements
- Pressure storage compatibility

	Gaseous hydrogen satisfying ISO 14687 (2019)
	Any pressure over 10 barg

Air

- Air quality
- Pressure

	Ambient filtered by default / Adaptable depending on environmental conditions
	Atmospheric

Thermal management

- Cooling temperature
- Stack coolant

	70°C
	Glycol and deionized water

Operating conditions

- Operating temperature
- Storage temperature
- Humidity

	-20°C / + 40°C
	-20°C / + 70°C
	≤ 95%

E-Monitoring

- ALSTOM HEALTH-HUB™

	Remote monitoring and predictive maintenance
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APPLICATIONS



Data centers

Reducing your energy impact while securing installations



Company sites

Promoting your company as a green business while maintaining high quality services to your customers



Remote sites

Offering autonomous and zero emission power supply



Critical sites

Guaranteeing vital functions of critical facilities / services



Pollution-free environments

Complying with legal obligations and environmental objectives by providing zero-emission power

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