

FUEL CELL GENERATOR

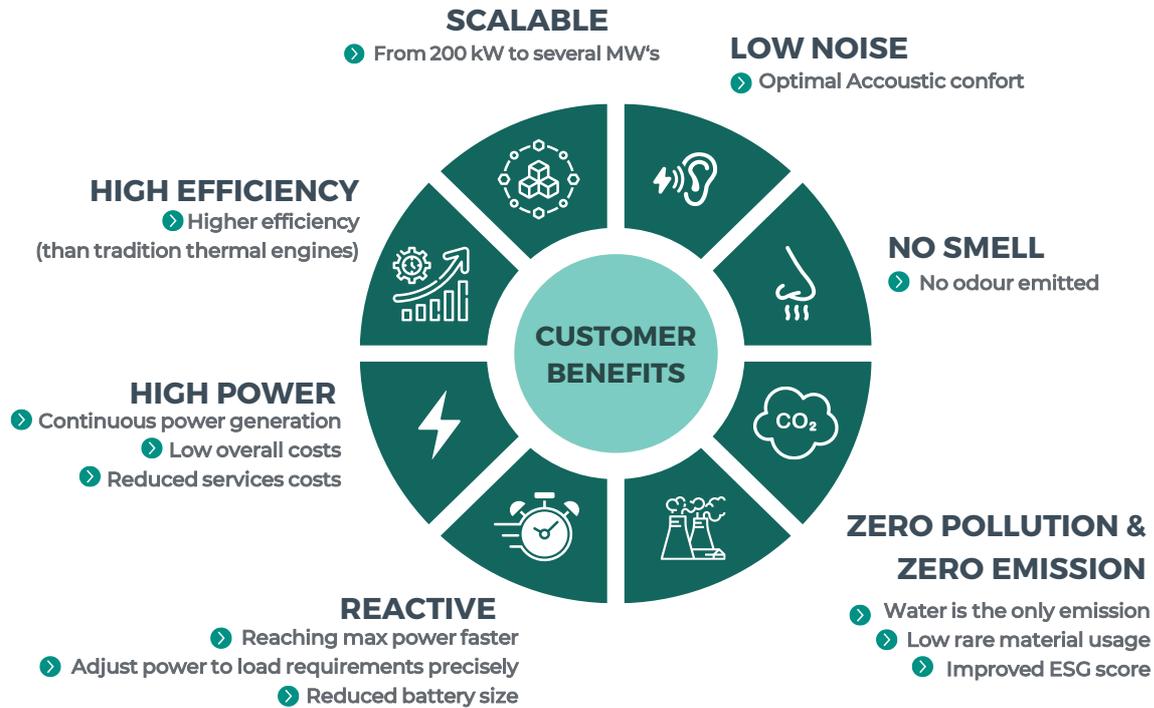
GEN-Z 300 | GEN-Z 600 | GEN-Z 1300



Supported modes/applications:

- Prime / Continuous
- Island
- On-grid / Off-grid
- Parallel (with other gensets)

CLEAN POWER FOR MOBILE & STATIONARY APPLICATIONS



COMPREHENSIVE OEM SOLUTIONS FOR TOTAL SUPPORT

- End-to-end expertise in full-stack design and manufacturing
- Uncompromised quality control for manufacturing excellence
- Specialized in fuel cell testing and industrial implementation
- Uninterrupted 24/7 operation with superior reliability
- Agile team delivering tailored solutions to meet unique needs
- Rapid response support & assistance services

ADVANCED FUEL CELL STACK TECHNOLOGY: POWERING THE FUTURE

- Eco-friendly operation with minimal environmental footprint
- Plug-and-play modular solutions for easy deployment
- Scalable architecture supporting megawatt-range applications
- Uninterrupted 24/7 operation with superior reliability
- Flexible autonomy options to suit diverse needs
- Reduced maintenance requirements for optimal efficiency

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AT THE CORE OF INOCEL'S POWER GENERATION SOLUTIONS IS THE Z300-S FUEL CELL SYSTEM, OFFERING OUTSTANDING EFFICIENCY AND VERSATILE PERFORMANCE.

The core of our Genset: Z300-S fuel cell system

Customer Benefits

Optimal design minimizes the total system cost.

Easier installation:

Simplified BOP requirements enables faster and easier setup processes.

Reduced maintenance:

Fewer components and optimized design result in lower long-term maintenance needs and costs.

Characteristics

·Simplified integration ·Reduced component complexity ·High-performance



Z300-S FULL CELL SYSTEM

This state-of-the-art technology is designed to replace traditional genset, serving as a primary power source or operating in hybrid configurations when combined with alternative energy systems.

MOBILE APPLICATIONS

Construction



Event



Industry



Mining



From 15 kW
To > MW

STATIONARY INFRASTRUCTURES

Smart-grid



Data-centers



Ports



Balancing the grid with H2 storage, fast response time, economic dispatch, loadshedding supporting voltage and frequency regulation

Continuous critical power supply for resilience and energy transition

On-shore power supply, cold ironing

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INOCEL Z300-S POWERED GENERATOR SPECIFICATIONS



GEN-Z 300



GEN-Z 600



GEN-Z 1300

CONFIGURATION

Electrical battery

Use-case specific

POWER OUTPUT

Peak power max ¹ (1h)	240 kW	480 kW	> 1,3 MW
Peak Power ¹ [cos(φ)=0,8]	300 kVA	600 kVA	> 1,3 MVA
Idle power	15 kW	15 kW	15 kW
Nominal power	200 kW	400 kW	1,2 MW
Electrical efficiency	54 %	54 %	54 %
Recoverable Heat	> 30%	> 30%	> 30%
Total efficiency (CHP mode)	> 80%	> 80%	> 80%
Voltage output	400 VAC @ 50 Hz / 60 Hz (or on demand)		

OPERATION & ENVIRONMENT

Lifetime	20 years		
Relative humidity	30% to 95%		
Operating temperature	-20 °C to 40 °C ¹		¹ Negative temperatures in option
Storage temperature	-25 °C to 70 °C		
Noise	< 70 dBA		

PHYSICAL

Footprint (ISO Container)	ISO 20' Container	ISO 30' Container	ISO 40' Container
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HYDROGEN SUPPLY

H2 quality	ISO 14687:2019 / Grade D
H2 inlet pressure	8 to 413 bar g (or 8 barg ²)

SAFETY & NORMS

Fuel cell system safety	IEC 62282-3-100: 2020 IEC 61508-1:2010 CE certification
Electrical safety	
Other	

¹ Max duration: 1 hour

² Optional

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OUR FACILITIES



BELFORT Gigafactory

- 15,000 m²
- Prod. capacity 30k units/years
- Industrialization team
- Customer Services



SAINT-EGREVE Headquarters & R&D

- Stack Development
- BoP Design
- Software & Electrical



MOUGINS Advanced Technology

- Complex System
- Prototyping
- Powertrain



SERVICE OFFERINGS

INOCEL offers a comprehensive full-service solution for fuel cell power generators encompassing design, installation, maintenance, and after-sales support to ensure optimal performance and longevity.

Service Item	Spare Parts Agreement	Standard Maintenance Agreements	Condition Assessment	Optimization Services	Training & Studies
Preferred Pricing	✓				
Extended Warranty	✓				
Parts Logistics	✓				
Hot Line		✓			
Preventive Maintenance		✓			
Periodic & Continuous Monitoring (remote)			✓		
Troubleshooting & Repair			✓		
Diagnostics			✓		
Emergency Response				✓	
Installation Training					✓
Maintenance Training					✓
Operation Training					✓
Engineering Feasibility Studies					✓



For more information or to schedule a demonstration, please contact us at: sales@inocel.com or scan the QR code

