inocel
Hydrogen Powered Solutions

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

SCALABLE
- From 200 kW to several MW's

LOW NOISE
- Optimal Accoustic confort

HIGH EFFICIENCY
- Higher efficiency (than tradition thermal engines)

No Smell
- No odour emitted

HIGH POWER
- Continuous power generation
- Low overall costs
- Reduced services costs

ZERO POLLUTION & ZERO EMISSION
- Water is the only emission
- Low rare material usage
- Improved ESG score

REACTIVE
- Reaching max power faster
- Adjust power to load requirements precisely
- Reduced battery size

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:

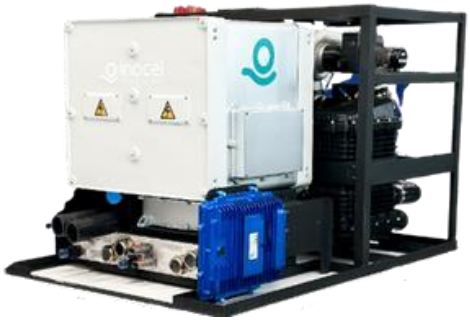
Simplified BOP requirements enables faster and easier setup processes.

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

From 15 kW
To > MW

STATIONARY INFRASTRUCTURES

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
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	
Electrical safety		IEC 61508-1:2010	
Other		CE certification	

[1] Max duration: 1 hour

[2] Optional

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OUR FACILITIES

BELFORT
Gigafactory

·1500 m² | 30 k 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 Assessement	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

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