



Powering the hydrogen future™ with our outstanding fuel cells and service.

IE-GRID fuel cell systems for scalable, zero-emission stationary power.

Intelligent Energy's IE-GRID product line provides clean power for scalable stationary power applications from 100kW to multi-MW.

Intelligent Energy's IE-GRID™ product line delivers clean, reliable power for stationary and distributed energy applications from 100kW to multi-megawatt scale. Designed to support critical infrastructure where performance and availability matter most, IE-GRID provides a future-proof alternative to fossil-fuel generation.

IE-GRID uses our proven HD100 platform which can be configured in series or parallel to deliver up to 1MW from a single container, with multiple containers combined seamlessly to achieve multi-MW installations. This modular approach enables flexible system sizing while maintaining a compact footprint and shared balance-of-plant.

With rapid start-up and responsive load following, IE-GRID ensures clean power availability is maintained at all times - safeguarding operations where downtime is not an option.

Summary Product Information:

Systems scalable from 100kW to multi-MW. Specifications may vary with scale and integration needs

System specification	Net output power	100kW
	Net current output (DCDC)	0-600A
	System voltage output (secondary)	400 / 800VDC (regulated)
	System voltage input	LV: 18-32 VDC HV: 300-400 VDC (battery side - unregulated for system startup)
Physical	Mass	650kg (including DCDC)
	Volume	(L x H x W): 2520 x 1040 x 1400 mm
Environment	Operating ambient temp.	+5°C to +40°C nominal -40°C to +85°C nominal
Fuel	Type	Gaseous hydrogen
	Quality	ISO 14687-2025 Type 1 Grade E Category 2
	Peak efficiency	54%
	Fuel supply pressure	8 to 12 bar gauge
Life	Operational hours	10,000 hours
Interfaces	Electrical	HV output connector HV input connector 24 VDC input LV signals and Comms
	Control	Can 2.0B bus interface to vehicle level controller/optional J1989 gateway

Benefits:

- ✓ Rapid start-up and fast response for continuous power availability
- ✓ High power density in a compact, containerised footprint
- ✓ Modular, flexible architecture to match power demand
- ✓ Scalable from 100kW to multi-MW using shared balance-of-plant
- ✓ High availability and predictable performance for mission-critical operations
- ✓ Zero-emission operation using advanced hydrogen fuel cell technology

Get in touch today to find out how your applications can benefit from our zero-emission fuel cells

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