



Choosing the Right Power Solution INERGIO Compared to Diesel Generators

INERGIO is an advanced power system built to solve the problems of diesel generators. While diesel units need constant servicing, make noise, and burn a lot of fuel, INERGIO provides clean, silent, and fully autonomous power. It has no moving parts and works without any on-site intervention. It works easily with solar and battery systems, turning on automatically when needed to keep your operations running 24/7, while using much less fuel.

Key product benefits



Silent and Emission-Free

INERGIO runs quietly and produces no toxic emissions, making it ideal for residential areas and sensitive environments.



Zero Maintenance

No moving parts means no servicing, no site visits, and no unexpected downtime.



Lower Fuel Use

Uses up to 7x less fuel than diesel and runs on widely available propane, cutting fuel costs and reducing refueling trips.

	GENERATOR*		INERGIO	
Fuel consumption (lb/hr)	0.72	7x less fuel	0.1	
Energy Density (kWh/lb)	0.63	3x more energy	1.8	

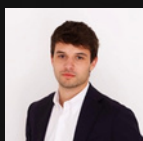
*Considering a Generator of 1.8kW running at 1/4 of its load (450W)

A diesel generator typically requires maintenance every 100 operating hours. To generate 483 kWh (annual consumption of average surveillance system) a 1.8kW generator running at 1/4 of its load, would run for 1,073 hours, requiring at least 10 maintenance interventions per year.

| 15 000+ hours lifetime | -40 to 131 °F

 Swiss Engineered

Interested in a demo? [Schedule a Call](#) ↗



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Choosing the Right Power Solution INERGIO Compared to Methanol Fuel Cells

Methanol fuel cells come with real-world challenges: high fuel costs and complex fuel logistics, limited runtime, and sensitive hardware that often requires repair or replacement.

INERGIO solves these problems with a smarter solution powered by widely available propane, while also delivering the same clean and silent operation. With longer autonomy, lower total cost of ownership, and hassle-free deployment, INERGIO makes off-grid power simple and reliable.

Why switch to propane?

Methanol is a common fuel for off-grid fuel cells but has key drawbacks: it's hazardous, requires strict supply management, and has low energy density. Propane is safer, easier to store and transport, widely available, and delivers higher performance and lower operating costs.

Key fuel advantages



**Up to 10x
Lower Fuel
Cost per kWh**

Propane-powered systems drastically reduce energy costs, helping your business scale without burning budget.



**Double the
Runtime, Half
the Refueling**

With higher energy density, propane extends operational autonomy and reduces downtime.



**Simpler
Logistics,
Safer Handling**

Propane is the same safe, portable fuel used in BBQs. It is easy to transport and deploy without special logistics.

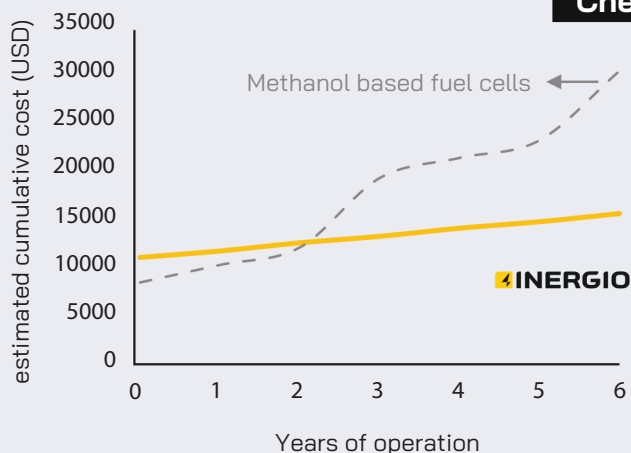
	METHANOL		PROPANE
Content (gal)	7.40		7.40
Weight (lbs)	48.8	40% lighter	30.36
Fuel cost (\$)	215	6x cheaper	34.31



*Considering a price of \$4.40/lb for Methanol and \$1.13/lb for Propane

Why opt for INERGIO Mini over a methanol fuel cell?

Switching from methanol to propane is a smart move. Choosing INERGIO's fuel cell system builds on that advantage. With advanced solid oxide fuel cell technology, it brings reliable performance, high efficiency, and unmatched weather resilience.



Key product advantages



>2.5x Longer Lifetime

INERGIO operates for over 15,000 hours, reducing replacement cycles and total cost of ownership.



Higher Efficiency

Higher efficiency means less fuel, fewer emissions, and better performance than methanol systems.



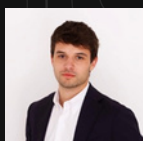
Cold weather ready

Needs no frost protection, performs reliably in harsh weather, and operates smoothly in temperatures from -40 to 131 °F.

METHANOL FC			INERGIO
Lifetime (hours)	up to 6,000	2.5x higher	>15,000
Power (W)	125	12–36% more power	140-170
Fuel Consumption @150W (lb/h)	0.2	2x less fuel	0.1
Energy created (kWh/lb)	0.6	3x more energy	1.8
Cost per kWh (\$)	7.34	10x cheaper	0.63



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