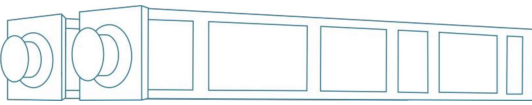


The Mainspring Linear Generator

Local, scalable, fuel-flexible power for commercial and industrial customers, biogas developers, utilities, municipalities, and datacenters

Easy, modular installation
High availability & low maintenance
Up to 25 MW per acre scalability



Each package contains two linear generator cores, operated in tandem



Breakthrough design enables an unmatched combination of features and benefits.

High efficiency
 Direct conversion of linear motion into electricity

Fuel flexibility
 Continuous, adaptive control without mechanical constraints

Near-zero NOx
 Low-temperature, non-combustion reaction without a flame or burning

Fully dispatchable
 Load-tracking, fast on/off, black start, and islanding

Permitting anywhere
 Meets any air permitting requirements in the US

Controllable & configurable
 Integrates seamlessly with site components & requirements

Performance specifications

Outputs¹	Power (net AC)	250 kW
	Electrical	400/480 V, 3 Phase, 50/60 Hz
Inputs	Fuels	Any blend of Biogas ² , Natural Gas, Hydrogen, and Propane
	Input Pressure	5-15 psig (10 psig nominal)
	Water Consumption	None
Efficiency³	Electrical (LHV, net AC)	46%
	Heat Rate (HHV, net AC)	8,233 BTU/kWh
Emissions⁴	NO _x	< 2.5 ppm (<0.07 lb/MWh)
	Noise	< 70 dBA @ 6 feet
Physical	Weight	20 tonnes
	Dimensions (L x W x H)	20.5' x 8.5' x 9.5'

Environment	Temperature Range	-30 to 50 C
	Humidity	0 to 100%
Operations	Power Output Range	0 to 100% power output
	Grid Parallel to Island Transfer ⁵	< 10 sec
	Maximum Step Load	300 kVA for up to 10 sec
	Building Soft Start Capability	Yes
Other	• UL 2200 package	• Remote monitoring
	• UL 1741 SB grid-tie inverter	• Secure customer portal
	• Compliant with CA Rule 21	• Modbus interface

¹ Rated capacity may vary by fuel type.
² Relative humidity: <70% | Sulfur: < 50 ppmvd | Siloxanes: < 100 ppbvd | Oxygen and nitrogen: no limitations
³ Measured according to ASME PTC 50 at 15 C and 1 atm on natural gas and biogas. Rated efficiency may vary by fuel type.
⁴ Products comply with emissions limits in South Coast AQMD.
⁵ Performance with purchase and installation of external site relays and controls equipment.

All data is subject to technical development and modification. R30202

About Mainspring Energy

Driven by its vision of the affordable, reliable, zero carbon grid of the future, Mainspring is delivering a breakthrough new category of power generation - the linear generator - to customers to increase their energy resilience, generate cost savings, and meet their sustainability and climate goals.

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