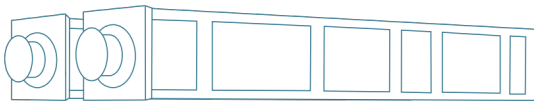


The Mainspring Linear Generator

Utility-scale performance for any project size on both sides of the meter

Easy, Modular Installation
Inverter-based Technology
15 MW per Acre Scalability



Each package contains two linear generator cores, operating 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.

Turnkey Packaging
Built-in grid tie inverters and auxiliaries.

Performance Specifications

Outputs^{1,2}	Power (net AC) Electrical	230 kW 480 V, 3 Phase, 60 Hz
Inputs³	Fuels Input Pressure Water Consumption	Natural Gas or Biogas with Hydrogen blend up to 30% 8-25 psig (15 psig nominal) None
Efficiency⁴	Electrical (LHV, net AC) Heat Rate (HHV, net AC)	45% 8,416 BTU/kWh
Emissions⁵	NO _x Noise	< 2.5 ppm (<0.07 lb/MWh) < 70 dBA @ 6 feet
Physical	Weight Dimensions (L x W x H)	20 tons 20.5' x 8.5' x 9.5'

Environment	Temperature Range Humidity	-20 to 50 C 0 to 100%
Grid-Parallel	Load Tracking Power Output Range	20 kW/second up/down 0 to 100% power output
Backup⁶	Grid Parallel to Island Transfer Maximum Step Load Building Soft Start Capability	< 10 sec 120% nameplate kVA Yes
Other	<ul style="list-style-type: none"> UL 2200 package UL 1741 SA grid-tie inverter 	<ul style="list-style-type: none"> Remote monitoring Secure customer portal

¹ Projects greater than 1.5 MW can be optimally designed with the use of external inverters.
² Rated capacity is reduced by 10 kW if operated in the South Coast AQMD..
³ 100% hydrogen and 100% ammonia capable with field UL certification.
⁴ Measured according to ASME PTC 50 at 15 C and 1 atm.
⁵ Products comply with emissions limits in South Coast AQMD.
⁶ Performance with purchase of internal backup kit and additional site relays and controls equipment.

All data is subject to technical development and modification. R30022

About Mainspring Energy

Driven by its vision of the affordable, reliable, net-zero carbon grid of the future, Mainspring is the leading manufacturer of linear generators, delivering onsite, dispatchable, fuel-flexible power for commercial and industrial customers, utilities, municipalities, and microgrid developers.

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