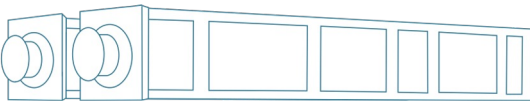


# The Mainspring Linear Generator

**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

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

**Permitting Anywhere**  
Meets any air permitting requirements in the US

**Fuel Flexibility**  
Continuous, adaptive control without mechanical constraints

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

**Controllable & Configurable**  
Integrates seamlessly with site components & requirements

## Performance Specifications

<b>Outputs<sup>1</sup></b>	Power (net AC) Electrical	230 kW 400/480 V, 3 Phase, 50/60 Hz
<b>Inputs<sup>2</sup></b>	Fuels Input Pressure Water Consumption	Any blend of Biogas, Natural Gas, Hydrogen, and Propane 5-25 psig (15 psig nominal) None
<b>Efficiency<sup>3</sup></b>	Electrical (LHV, net AC) Heat Rate (HHV, net AC)	45% 8,416 BTU/kWh
<b>Emissions<sup>4</sup></b>	NO <sub>x</sub> Noise	< 2.5 ppm (<0.07 lb/MWh) < 70 dBA @ 6 feet
<b>Physical</b>	Weight Dimensions (L x W x H)	20 tonnes 20.5' x 8.5' x 9.5'

<b>Environment</b>	Temperature Range Humidity	-30 to 50 C 0 to 100%
<b>Operations</b>	Power Output Range Grid Parallel to Island Transfer <sup>5</sup> Maximum Step Load Building Soft Start Capability	0 to 100% power output < 10 sec 300 kVA for up to 10 sec Yes
<b>Other</b>	<ul style="list-style-type: none"> <li>UL 2200 package</li> <li>UL 1741 SB grid-tie inverter</li> <li>Compliant with CA Rule 21</li> </ul>	<ul style="list-style-type: none"> <li>Remote monitoring</li> <li>Secure customer portal</li> <li>Modbus interface</li> </ul>

<sup>1</sup> Rated capacity may vary by fuel type.  
<sup>2</sup> 100% hydrogen requires greater than 125 psig.  
<sup>3</sup> Measured according to ASME PTC 50 at 15 C and 1 atm on natural gas and biogas. Rated efficiency may vary by fuel type.  
<sup>4</sup> Products comply with emissions limits in South Coast AQMD.  
<sup>5</sup> Performance with purchase and installation of external site relays and controls equipment.

All data is subject to technical development and modification. R30041

## 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.

3601 Haven Avenue  
Menlo Park, CA 94025  
[mainspringenergy.com](http://mainspringenergy.com)