

Radically simple. Factory built.

The Mainspring Linear Generator is fuel-flexible, fully dispatchable, uses no water, and emits near-zero NOx. No other primary power solution can match the flexibility, affordability, and low emissions of a linear generator.



▲ PERFORMANCE SPECS: MODEL NO. MSE 3

OUTPUTS¹	Power (net AC)	250 kW
	Electrical	400/480 V, 3-phase, 50/60 Hz
INPUTS²	Fuels	Any blend of biogas, natural gas, hydrogen, and propane
	Input pressure	5–20 psig
	Water consumption	None
EFFICIENCY³	Electrical (LHV, net AC)	46%
	Heat rate (HHV, net AC)	8,233 BTU/kWh
EMISSIONS⁴	NOx	<1.5 ppm (<0.05 lb/MWh)
	Noise	<70 dBA @ 3m, <65 dBA @10m
PHYSICAL	Weight	20 tonnes
	Dimensions (L x W x H)	20.5' x 8.5' x 9.5'
	Power density	Up to 18 MW per acre
ENVIRONMENT	Temperature range	-30° to 50° C
	Humidity	0 to 100%
OPERATIONS	Power output range	0 to 100% power output
	Maximum load step / shed	250 kVA
	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. Refer to Mainspring fuel specifications for details.
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.

All data is subject to technical development and modification. R30313

▲ PRODUCT FEATURES

- 01 **Fuel flexible**
Seamlessly switch between natural gas, RNG, biogas, propane, and hydrogen.
- 02 **Dispatchable**
Quickly ramp output to meet variable workloads and enable grid independent operations.
- 03 **Low emissions**
Produce electricity with near-zero NOx and meet even the most stringent air quality standards.
- 04 **Modular**
Enable faster deployment timelines with factory-built units that are quick to install.
- 05 **Low maintenance**
Minimize downtime with modular design, only two moving parts and no oil.

