

# EVERGREEN GENSET SPECIFICATIONS



*Sea level, normally aspirated 1300cc block	<b>Multimix</b> <b>(&lt;50% CH4)</b>	<b>CNG</b> <b>(100% CH4)</b>
<b>FUEL FLOW CFM</b>	80-110	80-110
<b>AFR / LAMBDA</b>	.8:1 - 1.4:1	1.3:1 - 1.5:1
<b>OUTPUT kW</b>	100	100
<b>VOLTAGE</b>	440-480	440-480
<b>RPM</b>	3700-4300	3700-4300
<b>GENERATOR TEMPERATURE</b>	240F	220-240F
<b>ENGINE TEMPERATURE</b>	155-195F	160-180F
<b>OIL TEMPERATURE</b>	180-200F	180-190F
<b>EGT</b>	280-350F	270-320F

## ENGINE

Experienced engineers know how Occam’s Razor applies to complex problems, and our customers & partners in the field constantly remind us that the simpler solution is usually better. We started with the basic rotary engine design due to its low parts count, ease of maintenance and low cost to manufacture. By applying modern electronic ignition systems to improve gaseous fuel combustion, and modern ceramics & coatings to surface finishing and seals, we’ve created a durable multifuel motor that transforms the humble rotary engine into a global game-changer. Simplicity allows for modularity, and Volta PowerGen delivers small, scalable systems that fit the majority of biogas producers’ needs and budgets.

- **Emissions:** Meets CARB & EU 2020 standards
- **Fuel:** Agricultural Biogas, Landfill Biogas, Wastewater Treatment Plant Biogas, Refuse-Derived Fuels, Propane, Natural Gas, H2, Avgas (100 LL)
- **Volt.:** 110-480 VAC, single-phase or 3-phase, 50-60 Hz

## GENERATOR

Our generator is equally revolutionary due to simplicity. Like our engine, the generator is robust, scalable and inexpensive to manufacture. Copper-wound iron core generators that require complex manufacturing processes and generate excessive heat are a thing of the past. With power electronics modules built-in to ensure optimal torque and harmonized energy to the grid, an industrial load or a battery bank in real time, all the time.

## PORTABLE AND SCALABLE

The Evergreen Genset is scalable in 100kW increments and can be delivered on a skid, in a trailer or on a towable. Configured in a “hive” of up to ten units (1MW), each genset can be removed for replacement or maintenance by a single technician without affecting your operation’s power supply. 100kW modules can be replaced in minutes or overhauled by a single technician with standard tools in under two hours.

## AFFORDABLE

Ask our sales team how the Evergreen biogas-to-energy solution can deliver reliable, scalable power at less than half the cost of yellow heavy iron, and for one third the cost in maintenance per MW/hr. We work with many vertically integrated solutions. Contact [sales@voltapowergen.com](mailto:sales@voltapowergen.com)

CURRENT PROTOTYPE DATA:

11/1/2017 - 8/31/2018  
 Approximately <200 Hours  
 Fueltypes - CNG (100% CH4) & Multimix (<50% CH4)

This information is not intended for specific application purposes. Volta PowerGen reserves the right to make changes to prices, products, and specifications at any time without prior notice.