





MicroGENIUS™

A sustainable microgrid communications shelter that delivers efficient, grid-independent energy.

WHAT IS MICROGENIUS™?

The MicroGENIUS solution runs on solar power when the sun is shining and utilizes the battery energy storage or hydrogen when the sun is not available. The fuel cell provides an environmentally friendly solution for backup power, eliminating the need for gensets.

MicroGENIUS reduces operational/maintenance expenses, runtime limitations and the environmental challenges associated with gensets and VRLA batteries.

THE MICROGENIUS™ INCLUDES:

- Solar PV for primary energy
- AC/DC for network gear & IT
- Scalable lithium storage batteries
- Fuel Cell for backup power

MicroGENIUS[™] is:



Modular &

Redeployable











Zero Emissions

Speed to Market

Savings

Repeatable

Bulletproof Reliability

10 MICROGENIUS™ BENEFITS

Increased Reliability

The power chain has no moving parts and an extremely robust architecture. N+1 cooling configurations are available.

2. Reduced Maintenance

Since there are no moving parts, there are fewer things to fail; significantly increasing reliability and reducing maintenance.

3. Reduced OpEx

No moving parts means that maintenance expenses are reduced by 90 percent over generators and VRLA batteries. Utilizing solar, lithium batteries, and hydrogen fuel cells, we reduce internal truck rolls and other associated expenses responding to outages and component replacement with generators and VRLA. Solar energy significantly reduces energy expenses for the installation's life.

4. Globally Repeatable

Standard engineering and solutions work in all locations globally.

5. Rapidly Deployable

Deliver quickly to deploy capacity and harden your infrastructure with a fully integrated solution.

6. Sustainable

7.

Zero emissions, zero carbon footprint, completely sustainable solution. There is a significant impact on ESG Scores.

Life Expectancy

20-30 operational year life on climate/geographic location.

Prepackaged communications shelter solution / micro data center is available in multiple capacities with multiple runtime options. On-grid and off-grid solutions are available (packaged with high availability, long runtime MicroGRID solution).

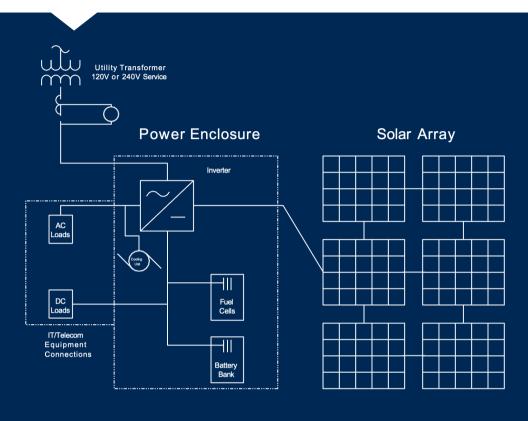
9. Resilient

Able to operate in harsh environments / operating conditions from -40 to +150F. Extreme runtimes are available (months or completely grid-independent).



Eligible for substantial tax credits in many parts of the world.

SUSTAINABLE. EFFICIENT. INDEPENDENT.



Side Elevation



Front Elevation

Optional Equipment

Container



Тор







PRODUCT SPECIFICATIONS

Sizes	Operating Temperatures
1kW	- 40F – 150F
2.5kW	Battery Runtime Range
5kW	4 hours to 24 hours (Higher Runtime Available)
10kW	Fuel Storage Capacity
15kW	l week to l year
30kW	UL/CE Rating
Voltage	CSA on fuel cell
AC – 120-240V (50 Hz / 60 Hz)	UL on inverter, solar panels and lithium batteries
DC – 48V	On and off-grid configurations

APPLICATIONS



Wireless



Mining



Fiber

Military



Cable TV



Public Safety



Utilities

Traffic

Signaling



Railroad



Oil and Gas



Let's Start the Conversation

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