





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

MicroGENIUS™ is:













Modular & Redeployable

Speed to Market

Savings

Repeatable

Bulletproof Reliability

Zero Emissions

10 MICROGENIUS™ BENEFITS

1. 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

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

7. Life Expectancy

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

8. Flexible

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).

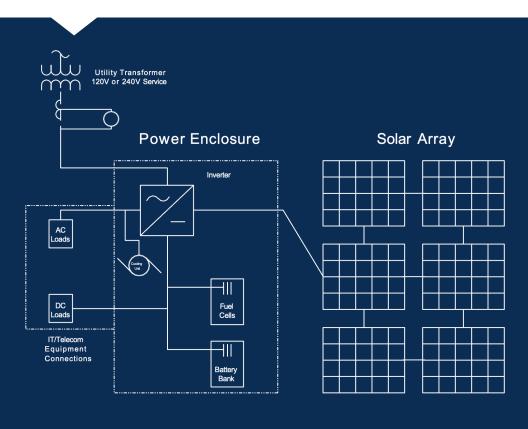
9. Resilient

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

10. Tax Benefits

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

SUSTAINABLE. EFFICIENT. INDEPENDENT.









PRODUCT SPECIFICATIONS

Sizes
1kW
2.5kW
5kW
10kW
15kW
30kW
Voltage
AC – 120-240V (50 Hz /

60 Hz) DC – 48V

Operating Temperatures

- 40F - 150F

Battery Runtime Range

4 hours to 24 hours (Higher Runtime Available)

Fuel Storage Capacity

1 week to 1 year

UL/CE Rating

CSA on fuel cell

UL on inverter, solar panels and lithium batteries

On and off-grid configurations

APPLICATIONS



Wireless



Fiber



Cable TV



Utilities



Railroad



Mining



Military



Public Safety



Traffic Signaling



Oil and Gas

