Microgrid on a Skid

Manufacturer of LithTech Products.

What a Microgrid on a Skid Includes:

- Auxiliary Connections
- Controls / Dispatch
- Protective Relaying
- Renewables Integration
- Battery
- Bi-directional Inverter
- Switchgear
- Transformer

Power **reStored.**

Product Overview

The Microgrid on a Skid (MGS) is a pre-engineered microgrid designed to seamlessly fit any application. MGS is purpose-built to be the multi-tool of microgrid solutions, bringing unparalleled reliability and speed to value.

With up to 1.5MWh of energy storage per skid, systems are ready to power for multiple use cases:

- Demand Response
- Frequency Response
- Power Factor Correction
- Resiliency
- Decarbonization
- Renewables Smoothing
- Energy Arbitrage
- Resource Adequacy
- Critical Load Support
- Backup Power
- MEP 2040 Design

Single Unit Specifications:

- Up to 1500kWh @ 750kVA
- Handles all standard interconnection voltages
- Full microgrid control functionality

Key Features

- Factory integrated and tested
- Designed and manufactured in the USA
- Virtual power plant enabled
- Economic dispatch software & modeling standard
- Configurations for any application
- Fully functioning microgrid
- Fits in a standard parking space
- Cuts installation costs by up to 65% & installation time by 85%
- 24/7 remote monitoring

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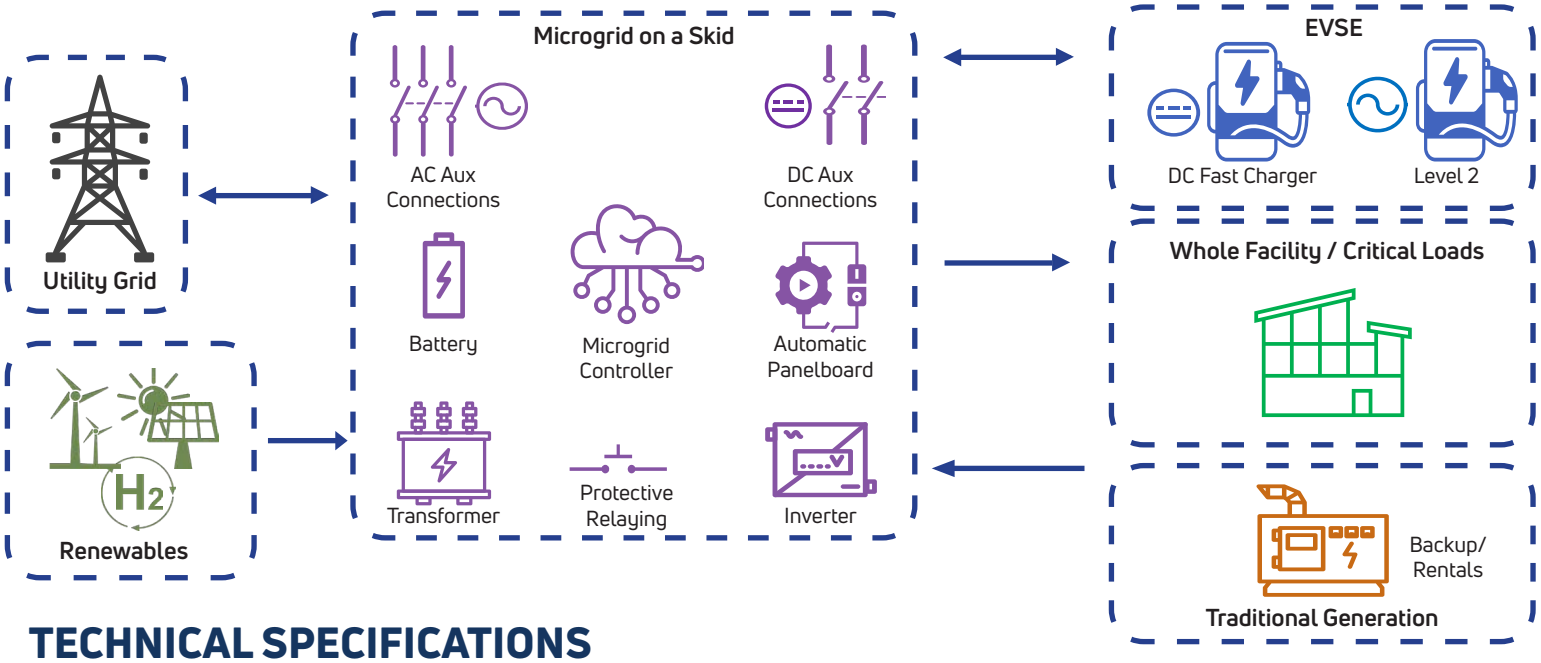
95 Stark Street, Tonawanda, NY 14150

Benefits of Microgrid on a Skid

Microgrids make it possible for the lights to stay on when the power goes out. For moderate-to-large energy consumers, this means ensuring uptime of business-critical loads, all while reducing operating costs and meeting sustainability goals. Systems are shipped to the site pre-built and pre-tested with a single point of connection to the facility, reducing overall project costs and installation time substantially. Implementing a microgrid has never been easier than it is now. Microgrid on a Skid is safe, fast, and reliable.



TECHNICAL SPECIFICATIONS

Item	MGS-0344-XX	MGS-0688-XX	MGS-1032XX	MGS-1376-XX	MGS-1472-XX
System Specifications					
Max Sustained Power	172 kW / kVA	344 kW / kVA	516 kW / kVA	688 kW / kVA	736 kW / kVA
Nominal Energy	344kWh	688kWh	1032kWh	1376kWh	1472kWh
Communication Interferences	RS485, Ethernet, GPRS				
Ambient Operating Temp Range	-13F to 113F				
Communication Protocols	DNP3.0, Modbus, IEC103, IEC104, Web API				
Onboard Controls	Full microgrid and site control				
Degree of Protection	IP54				
Dimension (L*W*H*)	9'L x 12'W x 11.5'H	9'L x 15'W x 11.5'H	9'6"L x 15'W x 11.5'H	9'6"L x 19'W x 11.5'H	9'6"L x 19'W x 11.5'H
Weight	10,890lb	19,200lb	27,700lb	36,500lb	39,900lb
DC Specifications					
Cell Capacity	3.2V / 280 AH				
Battery Chemistry	Lithium Iron Phosphate (LFP)				
Rated Cell Life	70% Retention at 10,000 cycles (0.5C at 77F)				
Rated Charge / Discharge Ratio	0.5C / 0.5C				
Cooling Method	Liquid Cooled				
Energy Cycle Efficiency Type	>94%				
Certifications	IEC62619, UL9540A, UL1973, UL9540				
Max kW DC Aux Connection	172 kW	250 kW	500 kW	500 kW	500 kW
AC Specifications					
Standard Voltage Range	Low Voltage: 480V, 600V Medium Voltage: Standard 5kV and 15kV Classes				
Grid Frequency	60Hz +/- 15%				
Power Factor	0 - 1.00 Leading or Lagging				
Certifications	UL1741SA, IEEE 519, IEEE 1547, NFPA 70, CSA 22.2 #107.1				
Current Harmonics	IEEE 1547 Compliant, <5% TDD				

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