



The ELM Microgrid Turnkey Package is shipped as a self-contained unit and can be installed outdoors or indoors.



MICROGRID 125kW PACKAGE

Turnkey Solution

Factory Assembled

Pre-Engineered

Pre-Wired

Pre-Installed Safety Labels

Pre-Tested

Managed Assets

Solar Generation

Distributed Battery Storage

Diesel, Propane & Nat Gas Generators

CHP Systems

Grid Power

Communications & Control

4G LTE Cellular

Ethernet and Wifi

Building Management

Generator Start and Stop

Optimal Power Forecasting

Power Reliability Alerts

Isochronous Generation Control

The Switch Advantage

Turnkey Solution

Indoor and Outdoor Enclosure Options

Climate Control

Fire Suppression Options

Microgrid Installation and O&M Guides



Electrical Specifications

AC Voltage	480 VAC
AC Input/Output Current	150 A
Max AC Output (<i>discharge</i>)	125kW
Max AC Input (<i>charge</i>)	125kW
Battery Capacity Range	110kWh – 910kWh
AC Frequency (<i>field settable</i>)	60 Hz
Max AC Overcurrent Protection	180 A
Peak Efficiency	98.5%
Power Factor	0 -1.0 Leading or Lagging

Equipment Specifications

External Dimensions (<i>L x W x H</i>)	60" x 36" x 104"
Weight	6100 lbs. (220kWh)
Lifting Provisions	Fork Lift Slots
Paint Tested	1000 Salt Hour Spray
Fire Suppression Options	Hybrid - 3M Novec
Temperature Range	-20°C to 50°C

Transfer to and from Islanded Mode

Upon detecting a grid disturbance, the system disconnects the Microgrid from the grid and seamlessly transitions critical/resiliency loads to Microgrid Islanded mode.

While in Microgrid Islanded mode, the system manages solar, wind and generator assets in order to efficiently support the resiliency loads.

Control Software

ELM Autonomous Microgrid Site Control System
Access & Alerts on Desktop & Mobile 24/7
Asset Monitoring System Level & Individual
Individual Microgrid Component Pages
Local HMI IP 65 Touchscreen
Communications: WiFi, Ethernet, Cellular

Functionality

Islanded MicroGrid	Off-Grid Applications
Grid Tied MicroGrid	AI Machine Learning Demand Charge Mgmt. Peak Shaving Self-Consumption Demand Response
Distributed Generation	Time of Use Operation

Key System Components

NEMA 3R Enclosure
Bi Directional Storage Inverter
DC Disconnect - (Battery)
AC Disconnect (<i>Inverter</i>)
Climate Controls

Certifications

Batteries	UL 1973, UL 9540A
Inverter	UL 1741 SA, IEEE 1547
System	UL 9540

For higher power or storage requirements multiple systems can be paralleled and additional energy storage containers can be added. Please contact Current Energy Storage for more details.



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