



# THE COMPLETE ENERGY STORAGE SOLUTION

ELM MicroGrid offers a full product lineup of BESS (Battery Energy Storage Systems) ranging from 125kW – 1MW with capabilities to parallel up to 20MW or more in size. All systems include full On Grid and Off Grid Capabilities utilizing our proprietary ELM FieldSight Controller. FieldSight features advanced microgrid and battery storage

technology that optimizes energy usage, provides emergency resiliency, increases power reliability, reduces power grid instability, offers on site generation asset control and energy production and consumption analysis.



## THE ELM ADVANTAGE

### POWER MANAGEMENT

- Solar and Generator Input
- Solar Automated Control
- Generator Automated Control
- Grid Power
- TOU Shifting
- Peak Shaving
- Off Grid Compatibility

### TURNKEY SOLUTION

- UL 9540 Factory Certified
- NFPA 855 Compliant
- Full Factory Testing
- Rapid Onsite Deployment

### INCLUDES

- ELM FieldSight Controller
- ELM FieldSight Cloud
- Built In Climate Control
- Built In Fire Suppression
- NEMA 3R Enclosures
- Expandable at Any Time



NEW 125,000 SQ. FT. FACILITY NOW OPEN The Colony, TX



4300 Live Oak  
The Colony, TX 75056

ELMmicrogrid.com





# MICROGRID PRODUCT LINE



**CMG15  
& CMG30**



**CMG125**



**MG250**



**MG500 &  
MG1000**

## MG Series Technical Specifications

**CMG15**

Phase Operation	Single Phase Operation
AC Voltage	240 VAC
AC Input/Output Current	80A
AC Output Power (Discharge; With PV/Battery Only)	15kW/12kW
AC Input Power (Charge)	15kW
Battery Capacity	70kWh
AC Frequency (Field Settable)	50/60 Hz
MAX AC Overcurrent Protection	100A
Peak Efficiency	97.5%
AC Connection	Split Phase, 3 Wire

## Equipment Specifications

External Dimensions (L x W x H)	60" x 36" 84"
Weight	3,290 lbs.
Lifting Provisions	Fork Lift Slots
Paint Tested	1000 Hour Salt Spray
Fire Suppression	3M Novec 1230
Handles	Stainless Steel Lockable
Temperature Range	-20°C to 50°C

## MG Series Expansion Modules

Max kWh	70kWh
External Dimensions (L x W x H)	60" x 36" 84"
Weight	3,155 lbs.
Lifting Provisions	Fork Lift Slots
Paint Tested	1000 Hour Salt Spray
Fire Suppression	3M Novec 1230
Handles	Stainless Steel Lockable
Temperature Range	-20°C to 50°C

CMG30	CMG125	MG250	MG500	MG1000
Single Phase Operation	Three Phase Operation	Three Phase Operation	Three Phase Operation	Three Phase Operation
240 VAC	480 VAC	480 VAC	480 VAC	480 VAC
160A	150A	300A	600A	1255A
30kW/24kW	125kW	250kW	500kW	1000kW
30kW	125kW	250kW	500kW	1000kW
70kWh	220kWh	660kWh	1,100kWh	2,640kWh
50/60 Hz	60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
200A	250A	400A	800A	1600A
97.5%	97%	97%	97%	97%
Split Phase, 3 Wire	3 Phase, 3 Wire	3 Phase, 3 Wire	3 Phase, 3 Wire	3 Phase, 3 Wire
60" x 36" 84"	60" x 36" 104"	124" x 75" 111"	170" x 75" x 111"	(2) 170" x 75" x 111" + INV
3,425 lbs.	5,500 lbs.	17,000 lbs.	25,000 lbs.	59,000 lbs.
Fork Lift Slots	Fork Lift Slots	Fork Lift Slots	Fork Truck or Lift Strap	Fork Truck or Lift Strap
1000 Hour Salt Spray	1000 Hour Salt Spray	1000 Hour Salt Spray	1000 Hour Salt Spray	1000 Hour Salt Spray
3M Novec 1230	3M Novec 1230	3M Novec 1230	3M Novec 1230	3M Novec 1230
Stainless Steel Lockable	Stainless Steel Lockable	Reversible/Lockable	Reversible/Lockable	Reversible/Lockable
-20°C to 50°C	-20°C to 50°C	-20°C to 50°C	-20°C to 50°C	-20°C to 50°C
70kWh	220kWh	880kWh	1,320kWh	1,320kWh
60" x 36" 84"	60" x 36" 104"	124" x 75" 111"	170" x 75" x 111"	170" x 75" x 111"
3,155 lbs.	5,300 lbs.	20,000 lbs.	28,000 lbs.	28,000 lbs.
Fork Lift Slots	Fork Lift Slots	Fork Lift Slots	Fork Truck or Lift Strap	Fork Truck or Lift Strap
1000 Hour Salt Spray	1000 Hour Salt Spray	1000 Hour Salt Spray	1000 Hour Salt Spray	1000 Hour Salt Spray
3M Novec 1230	3M Novec 1230	Hybrid - 3M Novec 1230 Dry Pipe Water	Hybrid - 3M Novec 1230 Dry Pipe Water	Hybrid - 3M Novec 1230 Dry Pipe Water
Stainless Steel Lockable	Stainless Steel Lockable	Reversible/Lockable	Reversible/Lockable	Reversible/Lockable
-20°C to 50°C	-20°C to 50°C	-20°C to 50°C	-20°C to 50°C	-20°C to 50°C

## ALL ELM MICROGRID SYSTEM FEATURES

Key System Components		Operation Parameters		Control Software	
NEMA 3R Enclosure	⚡	Islanded Mode	Off Grid Applications	ELM Autonomous MicroGrid Site Control System	⚡
Climate Controls	⚡	Grid Tied Mode	Peak Shaving Backup Power Demand Response	Access & Alerts on Desktop & Mobile 24/7	⚡
Bi Directional Storage Inverter	⚡	Distributed Generation	Time of Use Operation	Asset Monitoring System Level & Individual	⚡
DC Disconnect (Battery)	⚡	<b>Certifications</b>		Individual MicroGrid Component Pages	⚡
AC Disconnect (Inverter)	⚡	Batteries	UL 1973, UL 9540A	Local HMI IP 65 Touchscreen	⚡
<b>OPTIONAL FEATURES</b>		Inverter	UL 1741 SA	Communications: Wifi, Ethernet, Cellular	⚡
AC Disconnect (Utility Interconnect)	⚡	System	UL 9540		
AC Circuit Breaker (Load Panel)	⚡				
PV Disconnect	⚡				
Utility Disconnect	⚡				



FAMILY OF COMPANIES



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