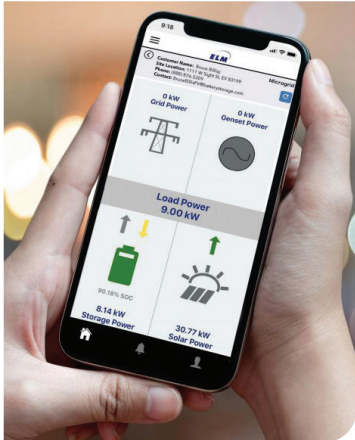




# THE COMPLETE ENERGY STORAGE SOLUTION

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.



**MG125**

## 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  
OPENING SOON



The Colony, TX



2701 E. State HWY 121  
Building 7 | Suite 700  
Lewisville, TX 75056

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# 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                                  | 50kWh                  |
| 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                         | 50kWh                    |
| 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                                |
| 50kWh                    | 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            | 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                         |
|                          |                          |                                       |                                       |                                       |
| 50kWh                    | 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 | ⚡ |
| Bi Directional Storage Inverter      | ⚡ | Grid Tied Mode         | Peak Shaving Backup Power Demand Response | Access & Alerts on Desktop & Mobile 24/7     | ⚡ |
| DC Disconnect (Battery)              | ⚡ | Distributed Generation | Time of Use Operation                     | Asset Monitoring System Level & Individual   | ⚡ |
| AC Disconnect (Inverter)             | ⚡ | Certifications         |   | Individual MicroGrid Component Pages         | ⚡ |
| AC Disconnect (Utility Interconnect) | ⚡ | Batteries              | UL 1973, UL 9540A                         | Local HMI IP 65 Touchscreen                  | ⚡ |
| AC Circuit Breaker (Load Panel)      | ⚡ | Inverter               | UL 1741 SA                                | Communications: Wifi, Ethernet, Cellular     | ⚡ |
| PV Disconnect                        | ⚡ | System                 | UL 9540                                   |  |   |
| Utility Disconnect                   | ⚡ |                        |   |  |   |
| Climate Controls                     | ⚡ |                        |   |  |   |



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