



**ALL-IN-ONE**

# G-MAX

COMMERCIAL AND INDUSTRIAL ENERGY STORAGE SYSTEM



## SAFETY

Compartmentalized design with a preventive alarm system.



## ECONOMIC

Zero power loss through efficient temperature control and frequency variation.



## INTELLIGENT

Offers multiple operation modes, including Peak Shaving, Load Shedding, PV-Storage Energy Control, and Frequency Regulation. Operating data can be transmitted to Fox ESS Cloud via Wi-Fi, 4G or 5G.



## AUGMENTABLE

Preconfigured during manufacturing, plug and play onsite. Capable of parallel connection upgrades for flexible system size application.

The G-MAX Series accommodates "All-in-one" design philosophy, integrating battery with longevity, intelligent BMS, high performance PCS, preventive safety system, smart distribution system and heat dissipation management system into one standard container for standardized manufacturing (for outdoor application) and simpler installation.

60kW ...>> 120kW



For more about the Fox ESS range of inverters, visit:

[us.fox-ess.com](http://us.fox-ess.com)



# TECHNICAL SPECIFICATIONS

| MODEL                                   | GM215kWh<br>-60kW-3.6h    | GM215kWh<br>-80kW-2.7h | GM215kWh<br>-100kW-2.2h | GM215kWh<br>-120kW-1.8h |
|---|---------------------------|------------------------|-------------------------|-------------------------|
| BATTERY SPECIFICATION                   |                           |                        |                         |                         |
| Battery Type [V/Ah]                     | LFP 3.2/314               |                        |                         |                         |
| Battery Pack Capacity [kWh]             | 60.29                     |                        |                         |                         |
| Battery System Capacity [kWh]           | 241                       |                        |                         |                         |
| Voltage Range [V]                       | 672 ~ 876                 |                        |                         |                         |
| Number of Temperature Sensor [V]        | 128                       |                        |                         |                         |
| Max. Charging Current [A]               | 157                       |                        |                         |                         |
| Max. Discharging Current [A]            | 157                       |                        |                         |                         |
| Battery Pack Protection Level           | IP67                      |                        |                         |                         |
| PV SPECIFICATION                        |                           |                        |                         |                         |
| Max. PV Array Power [kW]                | 120                       | 160                    | 200                     | 240                     |
| Max. PV Input Power [kW]                | 120                       | 160                    | 200                     | 240                     |
| Withstand Voltage [V]                   | 1000                      |                        |                         |                         |
| Input Voltage Range [V]                 | 180 ~ 950                 |                        |                         |                         |
| Start up Voltage [V]                    | 180                       |                        |                         |                         |
| MPPT Voltage Range [V]                  | 180 ~ 850                 |                        |                         |                         |
| MPPT No. / String per MPPT              | 4/2                       | 8/2                    | 8/2                     | 8/2                     |
| Max. Current per MPPT [A]               | 40                        |                        |                         |                         |
| Max. Short Circuit Current per MPPT [A] | 55                        |                        |                         |                         |
| AC SPECIFICATION                        |                           |                        |                         |                         |
| Nominal AC Input/Output Power [kW]      | 60                        | 80                     | 100                     | 120                     |
| Max. AC Input/Output Power [kVA]        | 66                        | 88                     | 110                     | 132                     |
| Nominal AC Input/Output Current [A]     | 70.17                     | 96.23                  | 120.28                  | 144.34                  |
| Max. AC Input/Output Current [A]        | 77.19                     | 105.85                 | 132.31                  | 158.77                  |
| Max. Bypass Current [A]                 | 300                       |                        |                         |                         |
| Nominal AC Voltage [V]                  | 480, 3W+N+PE or 3W+PE     |                        |                         |                         |
| Nominal AC Frequency [Hz]               | 50/60                     |                        |                         |                         |
| Frequency Range [Hz]                    | 45 ~ 55 / 55 ~ 65         |                        |                         |                         |
| Power Factor                            | 0.8 Leading ~ 0.8 Lagging |                        |                         |                         |
| Max. THDi [%]                           | <3                        |                        |                         |                         |
| DC Injection Current [%]                | 0.50                      |                        |                         |                         |
| On/off grid Switch Time [ms]            | <10                       |                        |                         |                         |
| Peak Current (Off-grid) [A]             | 225, 10s                  |                        |                         |                         |
| LRA Current [A]                         | 300                       |                        |                         |                         |
| Max. THDu (Off-grid) [%]                | <3 (Linear Load)          |                        |                         |                         |
| EFFICIENCY                              |                           |                        |                         |                         |
| CEC Efficiency [%]                      | 97.60                     |                        |                         |                         |
| Max. Efficiency [%]                     | 98.20                     |                        |                         |                         |
| GENERAL SEPECIFICATION                  |                           |                        |                         |                         |
| Dimension (W*D*H) [mm]                  | 1040*1500*2200            |                        |                         |                         |
| Weight [kg]                             | <2500                     |                        |                         |                         |
| Operation Temperature [°C]              | -25 ~ 55                  |                        |                         |                         |
| Type of Cooling                         | Liquid Cooling            |                        |                         |                         |
| Operating Altitude [m]                  | ≤ 3000                    |                        |                         |                         |
| Humidity [%]                            | 0 ~ 100                   |                        |                         |                         |
| Noise                                   | <75 @ 1m                  |                        |                         |                         |
| DOD [%]                                 | 0 ~ 100                   |                        |                         |                         |
| Cycle Life                              | ≥8000 @70%EOL             |                        |                         |                         |
| Communication Interfaces                | Ethernet                  |                        |                         |                         |
| Ingress Protection                      | IP54                      |                        |                         |                         |
| Fire Protection                         | Aerosol                   |                        |                         |                         |