



ALL-IN-ONE

G-MAX PLUS

COMMERCIAL AND INDUSTRIAL ENERGY STORAGE SYSTEM



APPLICATION

Supports direct connection to PV, grid, backup load, and generator, supplying stable power in both on-grid and off-grid modes with a seamless switching time of just 10 ms.



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 Plus 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.

50kW → 125kW



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

www.fox-ess.com

TECHNICAL SPECIFICATIONS

MODEL	GM241kWh-50kW-H	GM241kWh-75kW-H	GM241kWh-100kW-H	GM241kWh-125kW-H
BATTERY SPECIFICATION				
Battery Type [V/Ah]		LFP 3.2/314		
Battery Pack Capacity [kWh]		60.29		
Battery System Capacity [kWh]		241		
Operating Voltage Range [V]		672 ~ 876		
Number of Temperature Sensors		128		
Max. Charging Current [A]		176		
Max. Discharging Current [A]		176		
Battery Pack Protection Level		IP67		
PV SPECIFICATION				
Max. PV Array Power [kW]	100	150	200	250
Max. PV Input Power [kW]	100	150	200	250
Withstand Voltage [V]		1000		
PV DC Input Voltage Range [V]		180 ~ 950		
Start-up Voltage [V]		180		
MPPT Voltage Range [V]		180 ~ 850		
Max. Current per MPPT [A]		40		
Max. Short Circuit Current per MPPT [A]		50		
No. of MPPTs / Strings per MPPT	4/2	8/2	8/2	8/2
AC SPECIFICATION				
Nominal AC Input/Output Power [kW]	50	75	100	125
Max. AC Input/Output Power [kVA]	55	82.5	110	137.5
Nominal AC Input/Output Current [A]	380V	76.0	113.9	152.0
	400V	72.2	108.3	144.4
Max. AC Input/Output Current [A]	380V	83.6	125.4	167.2
	400V	79.4	119.1	158.8
Max. Bypass Current [A]		300		
Nominal AC Voltage [V]		380/400, 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] (10s)		225		
LRA Current [A]		300		
Max. THDu (Off-grid) [%]		<3 (Linear Load)		
EFFICIENCY				
Round Trip Efficiency [%]		90.0		
Max. Efficiency [%]		98.0		
GENERAL SPECIFICATION				
Dimensions (W*H*D) [mm]		1040*2230*1500		
Weight [kg]		<2600		
Operating Temperature [°C]		-25 ~ 55		
Type of Cooling		Liquid Cooling		
Operating Altitude [m]		≤ 3000		
Humidity [%]		0 ~ 100		
Noise [dB]		<75 @ 1m		
DOD [%]		0 ~ 100		
Cycle Life		≥8000 @ 70%EOL		
Communication Interfaces		Ethernet		
Ingress Protection		IP55		
Corrosion Protection		Standard C4, optional C5		
Fire Protection	Flammable gas detector, Smoke detector, Heat detector, Alarm sounder, Aerosol			