

Together for a
better future



ETRONIXCENTER

G-Max



GM215kWh-100kW-2h Parallel



G-MAX GM215kWh-100kW-2h



- **100 kW** continuous output power
- 768 V battery voltage with **215 kWh** capacity
- Separated and isolated battery cabinet, with **liquid cooling**
- Compact 1.04 x 1.5 x 2.2 m cabinet, **UN 38.3** certified for transport including batteries
- IP54 and -25 to 60°C temperature range, for outdoor installation
- With the internal EMS Up to **10 systems** in parallel / 5 in Offgrid-Mode
- Island / Off Grid mode
Blackstart



G-MAX Specifications



MODEL	GM215kWh-100kW-2h
Battery System Capacity [kWh]	215
Battery Rated Voltage[V]	768
Round Trip Efficiency [%]	≥89
DOD [%]	100
Working Principle	AC Couple solution
Communication Interfaces	Ethernet/4G
Ingress Protection	IP54
Cooling type	Liquid cooling
Rated AC Power[kW]	100
Peak Output Power [kW]	110
Rated AC Voltage[Vac]	380/400, 3L/N/PE
Altitude [m]	≤3000
Operation Temperature [°C]	-25 ~ 55
Operation Humidity [%]	5 ~ 95, non-condensing
Noise [db]	<75 @1m
Fire Protection	Aerosol Fire Extinguisher Device
Dimension [W*D*H][mm]	1000×1500×2200
Weight [Kg]	2500
Certificate	IEC62619 / IEC62477 / EC61000 / UN38.3
Fire Propagation Tests	UL9540A



G-Max Exterior Design



G-Max Interior Design

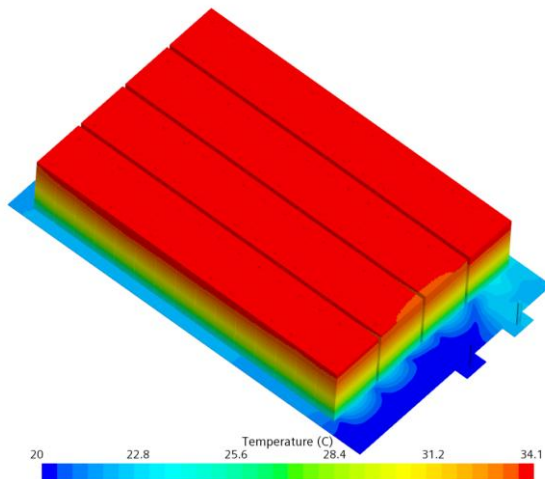


Factory pre-installed battery packs Simple and more cost-effective installation on site!

G-Max Battery Pack



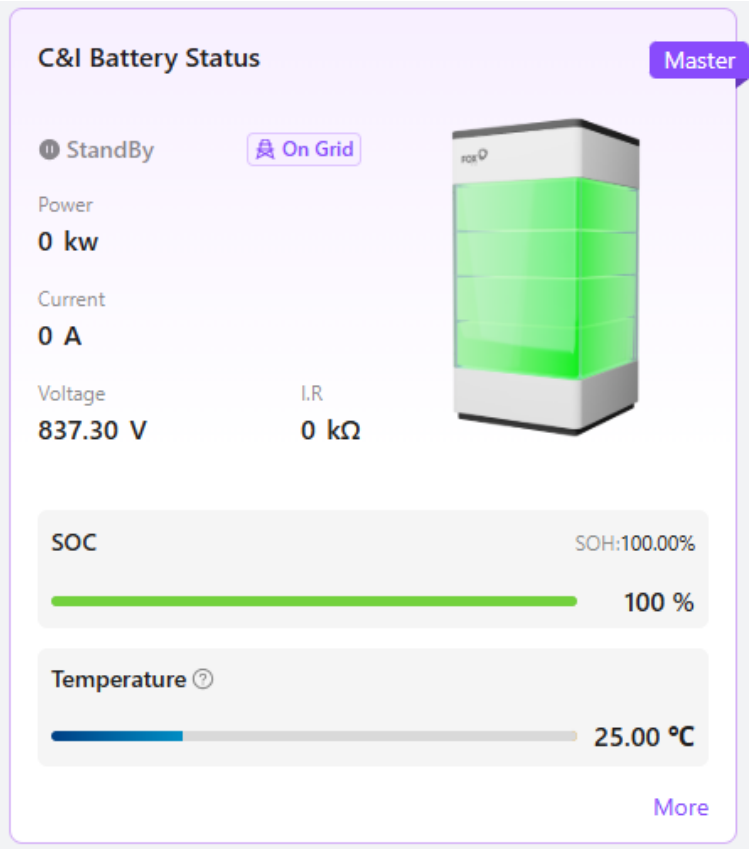
- 60 Cells Battery Pack
- IP67: Ensuring battery operation condition
- Double insulation design to ensure battery system safety.
- CCS (Cell Contact System) dual redundant fuse to prevent cell level short circuit
- Battery cells are put on top of cooling pad for better contact. Upper part with sensors and valves.



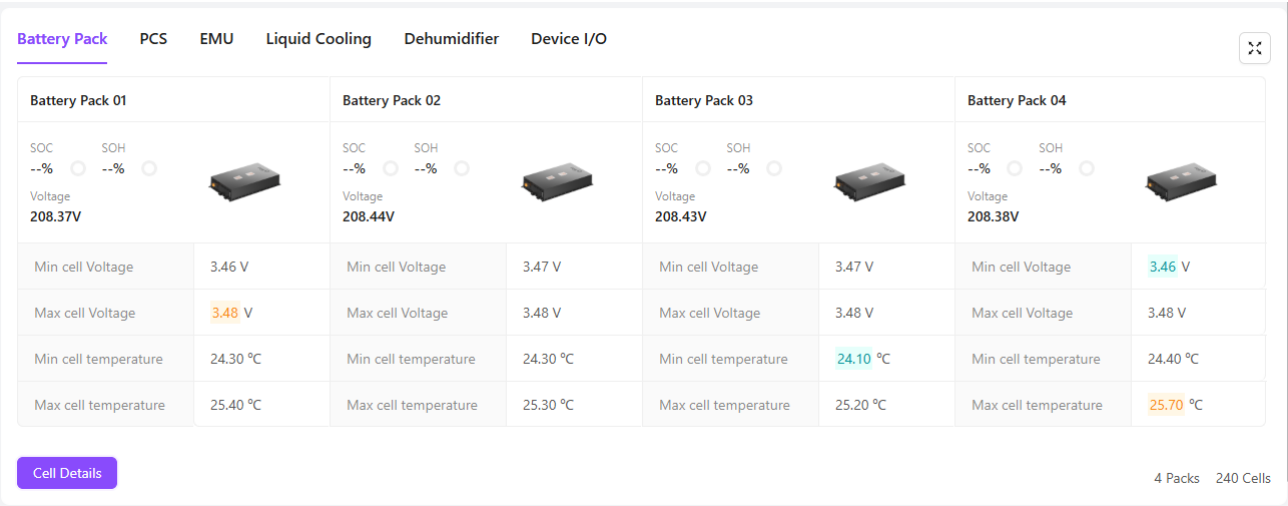
Temperature Distribution

BATTERY Module	
Battery type [V/Ah]	LFP 3.2/280
Pack capacity[kWh]	53.76
Nominal Voltage [V]	192
No. of temp sensors	32
Cycle life	8000(70% SOH) @25°C, 100%DOD
Cooling system	Liquid

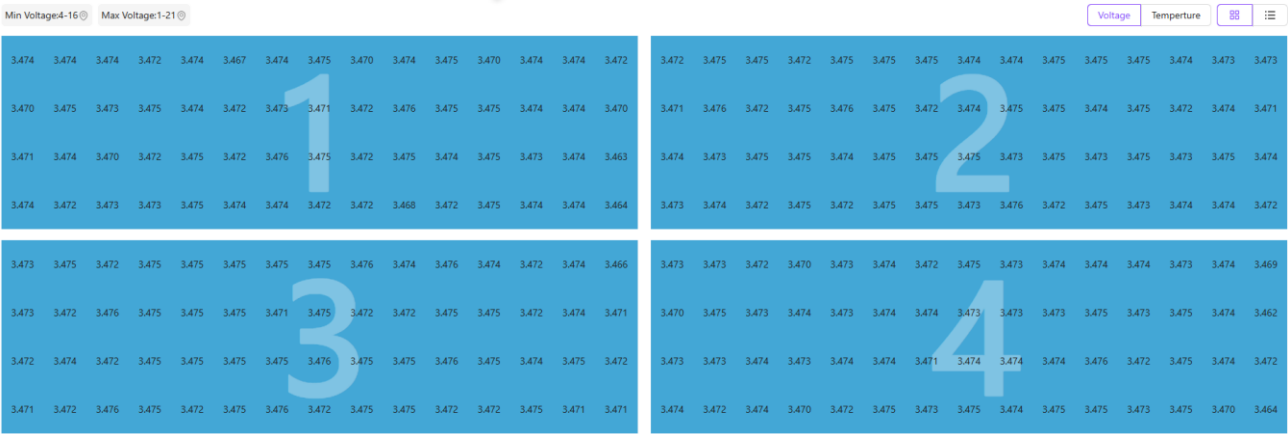
New Fox Cloud for C&I



Full System Monitoring

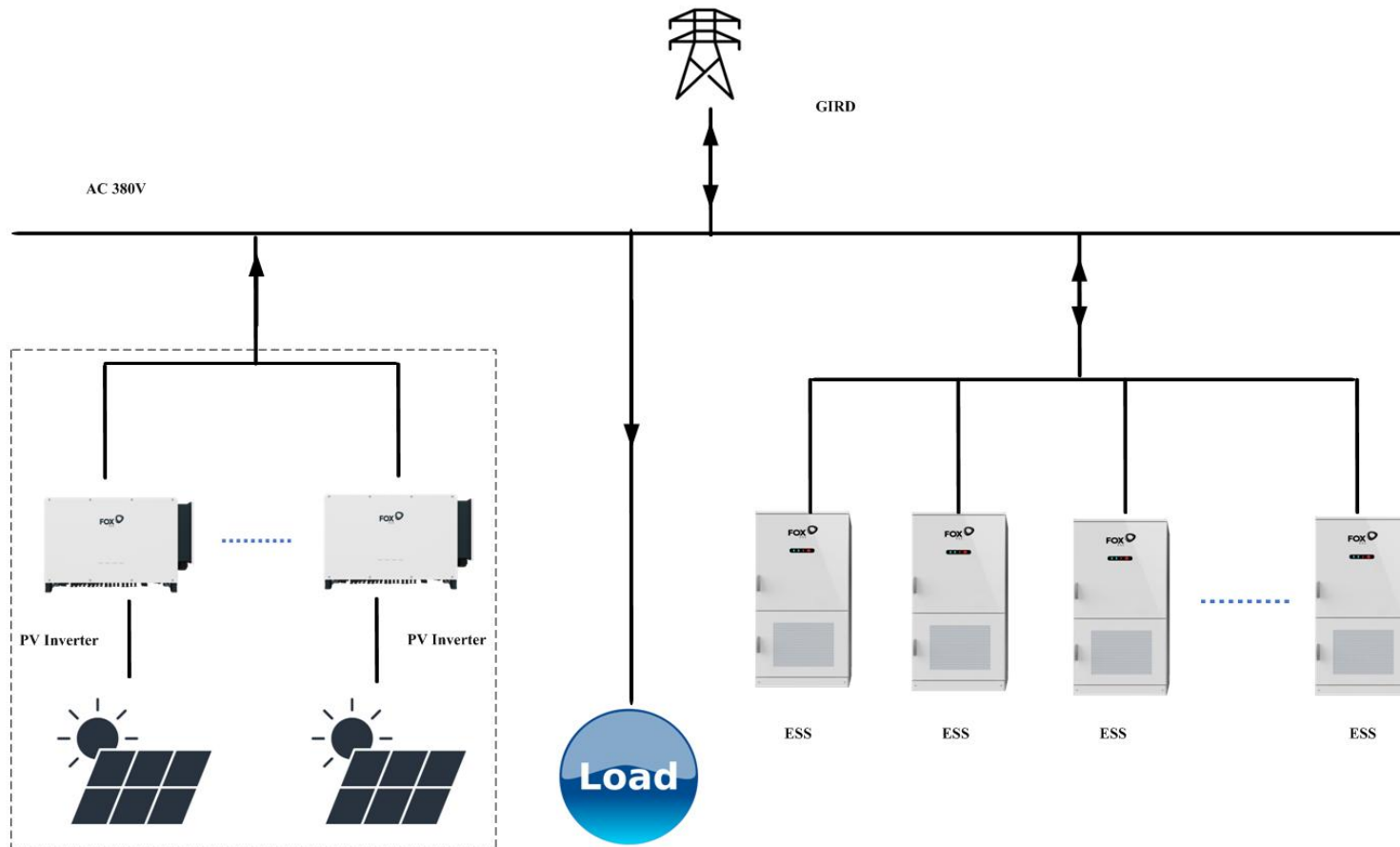


Battery Pack Data



Battery Cell Data

G-MAX Parallel Connection Solution



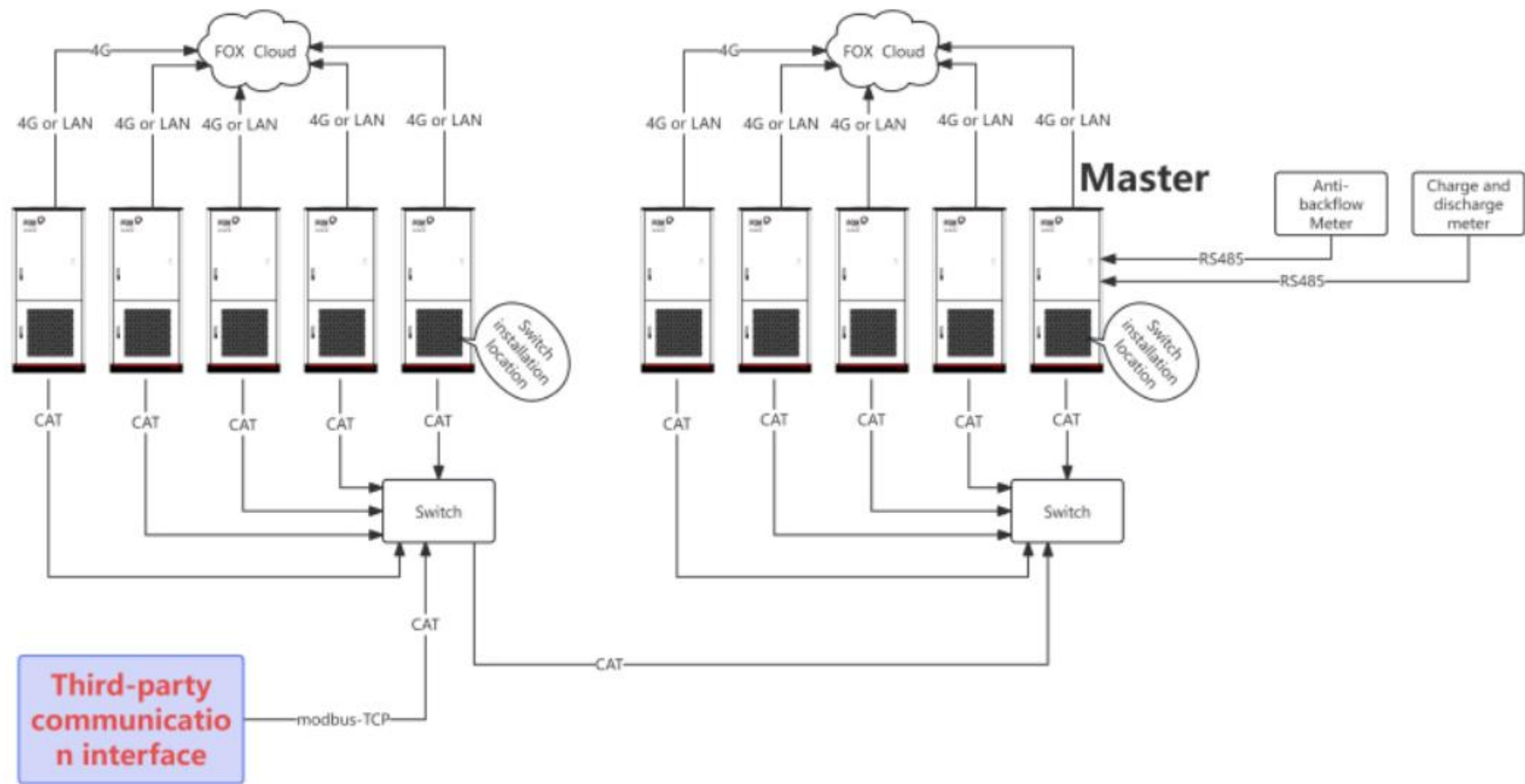
On-Grid:

- Internal EMS Max. 10 G-Max parallel

Off-Grid

- Internal EMS Max. 5 G-Max parallel

G-MAX Parallel Connection Solution



Use Cases G-MAX

Use case	Internal EMS	3 rd party EMS
Self-consumption optimization	V	V
Peak Shaving	V	V
Peak load capping	V	V
Off-Grid / UPS	V	V
FCR* (PCS level)		V
Reactive Power Control* (PCS level)		V
Onbalance Markt*		V
Energy trading*		V
VPP (Virtual Power Plant)*		V
Mitigation of Upstream Disturbances		V

* Bankable use cases



External EMS Integration

We work with various EMS partners to ensure that our products are optimally aligned with the management of energy flows.

Current Integration external EMS partners.

- Smartbox & Smartbox Pro
- Envitron
- Eniris
- BBT
- With the Grid
- OpenEMS
- Tawa
- Consolinno
- Smit Tech
- NGEN
- Embion
- Solar Gateway



G-MAX System Feature Summary

High Safety

- **UL9540A** Fire Propagation Test
- Pack- and cabin-level fire protection
- Advanced BMS and EMS supervision

High Efficiency

- High Efficient PCU allowing **>89% round trip efficiency**

Intelligent

- Built-in **peak shaving, load balancing, unbalance load support**
- Online monitoring, remote control and demand control

Precision Heat Management

- **Liquid cooling temperature control**
- Constant cell temperature in winter and summer

Plug and Play

- 400V on-grid & off-grid function
- **Parallel connection on-grid mode up to 10 units with internal EMS**
- **UN38.3 certified (system delivery)**



Comparison



	Fox ESS G-Max	SOLAX TRENE-P100B215I	LUNA2000-215-2S10	KSTAR-KAC50DP/BC00DE
Indoor / Outdoor	Outdoor	Outdoor	Outdoor	Outdoor
Rated capacity	215kwh	215kwh	215kWh	102.4kWh
Rated power	100kW	100kW	108kW	100kW
Max. Output Power	110kVA	110kVA		110kW
Rated voltage AC	380V/400V, 3P+N+PE	400 (-20% ~ +15%)	380 / 400 / 415 V (3P4W)	230/400V±3%; 3L+N+PE
Cooling method	Liquid cooling	Air cooling	Hybrid cooling	Air Cooling, Nature
Dimensions (W*D*H)	1040*1500*2200	1680 × 2420 × 1200	1150mm × 1800mm × 2100mm	Battery : 1100 x 1100 x 2380 mm PCS : 650*715*325mm
Weight	2500KG	2800KG	≤ 2.8 T	Battery : ~1500kg PCS : 75KG
Life cycle @0.5C	8000@70%EOL	≥ 8000	?	?
DOD	100%	90%	100%	?
Efficiency	89% depending on usage	98%	91,3%	97.5%

A large iceberg floating in the ocean. The tip of the iceberg is visible above the water line, while the vast, jagged, and textured underside is submerged in the deep blue water, illustrating the concept of hidden potential or capacity.

THE ENERGY STORAGE HIDDEN

GIANT

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