

2026 NEW

# GE-F Series Outdoor Battery Cabinet

GE-F128-NA Product Introduction

Small-Scale C&I ESS Solution



# Outdoor Battery Cabinet + Hybrid Inverter

## HESS HYBRID ENERGY STORAGE SYSTEM



**GE-F128-BC-4-A3**  
409.6Vdc/128kWh

### ◆ All-New Intelligent Air Cooling

- High Maintainability and Maturity
- Powerful cooling: no derating at 45°C, unaffected by extreme outdoor heat

### ◆ 2h Energy Storage Solutions

- Next-Gen High-Capacity Battery Cells , Energy Density Boosted by Over 50%
- Rated at 0.5P, Multi-Unit Cabinet Paralleling for Long-Duration Backup Power Needs

### ◆ Flexible Integration of Inverters

- Integrated external-mounted inverter design enables rapid station deployment
- Flexible Configuration for 30K 60K Power Output On Demand

# Outdoor Battery Cabinet + Hybrid Inverter Product Features

## HESS HYBRID ENERGY STORAGE SYSTEM



### Ultimate Protection, continuing "0" safety accidents

- Six-dimensional safety design, eliminating the risk of fire and explosion  
D1 Electrical Isolation + D2 Physical Insulation + D3 Active Exhaust + D4 Directional Venting + D5 Aerosol Suppression + D6 Water Sprinkler System
- High-intensity cabinet, unique patented door latch design, eliminates structural weak points
- Hour-Rated Fire Resistance to prevent heat spread



### Stable Efficient, Excellent performance ensures returns

- Long-life lithium iron phosphate battery,  $\geq 8000$  cycles
- High-efficiency thermal management, no derating at  $45^{\circ}\text{C}$ , cell temperature difference  $\leq 6^{\circ}\text{C}$
- 100% unbalanced output, up to 200% PV over-matching access



### Highly Integrated, All-in-one quick deployment

- Outer cabinet wall preset inverter bracket installation position, no concerns about wall load-bearing, no drilling required
- Equipped with hybrid inverters, it boasts versatile interfaces: PV, Grid, Load, Generator, Battery
- Single cabinet can easily deploy PV+ESS, PV+ESS+DG

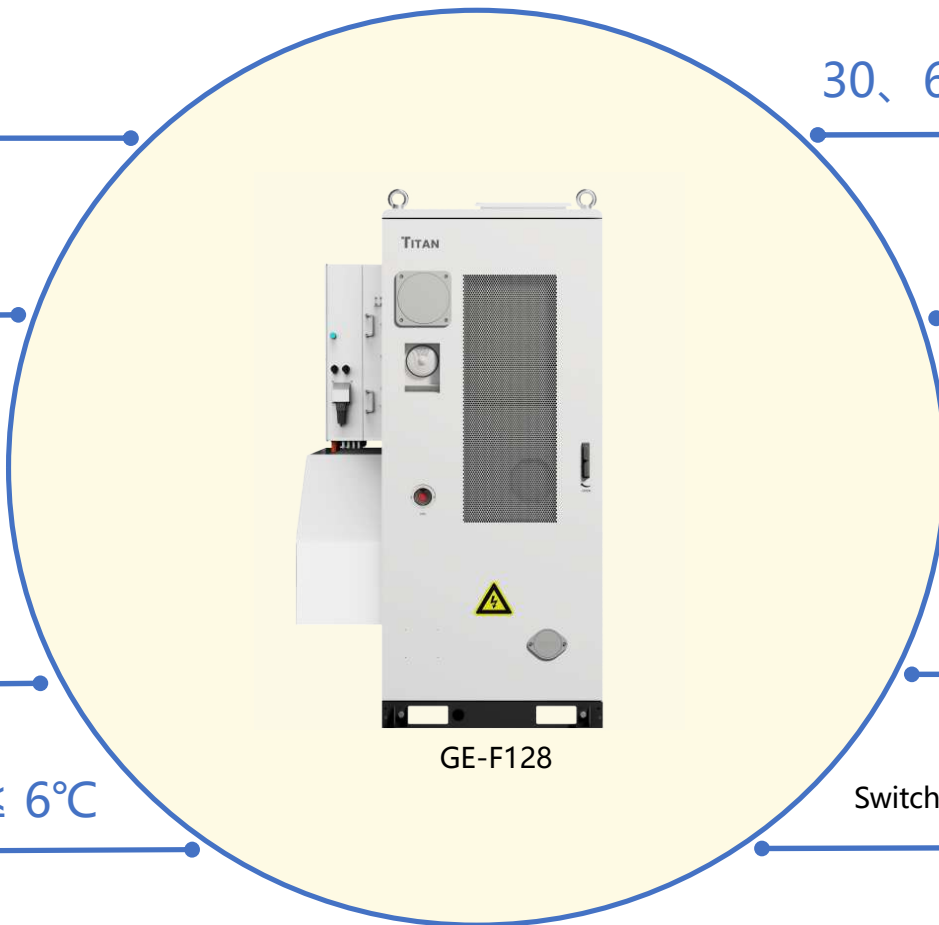


### Intelligent Management, Flexible adaptation and expansion

- Leading rack-level + pack-level + cell-level energy balancing algorithm, seamless battery pack replacement and cabinet expansion
- GE-F128 can be configured into a 2h system with the inverter power of 30kW 60kW,
- the hybrid inverter is capable of up to 10 units AC-side parallel, while:GE-F128 is capable of 10 units DC-side battery parallel
- Integrated energy platform, 24/7 AI smart customization of optimal power usage strategies

# Outdoor Battery Cabinet + Hybrid Inverter Product Highlights

## HESS HYBRID ENERGY STORAGE SYSTEM



All-in-one Design

30、60kW AC Power Range

314Ah LFP Cell

200% PV Over-configuration  
10-Channel MPPT

10-Unit DC-Side Paralleling

10-Unit AC-Side Paralleling

IP55, C4-M Rating  
Hour-Rated Fire Resistance

100% Unbalanced Output  
150% Overload Capability

No Derating at 45°C  
Cell Temperature Difference  $\leq 6^\circ\text{C}$

Switching Time  $< 10\text{ms}$

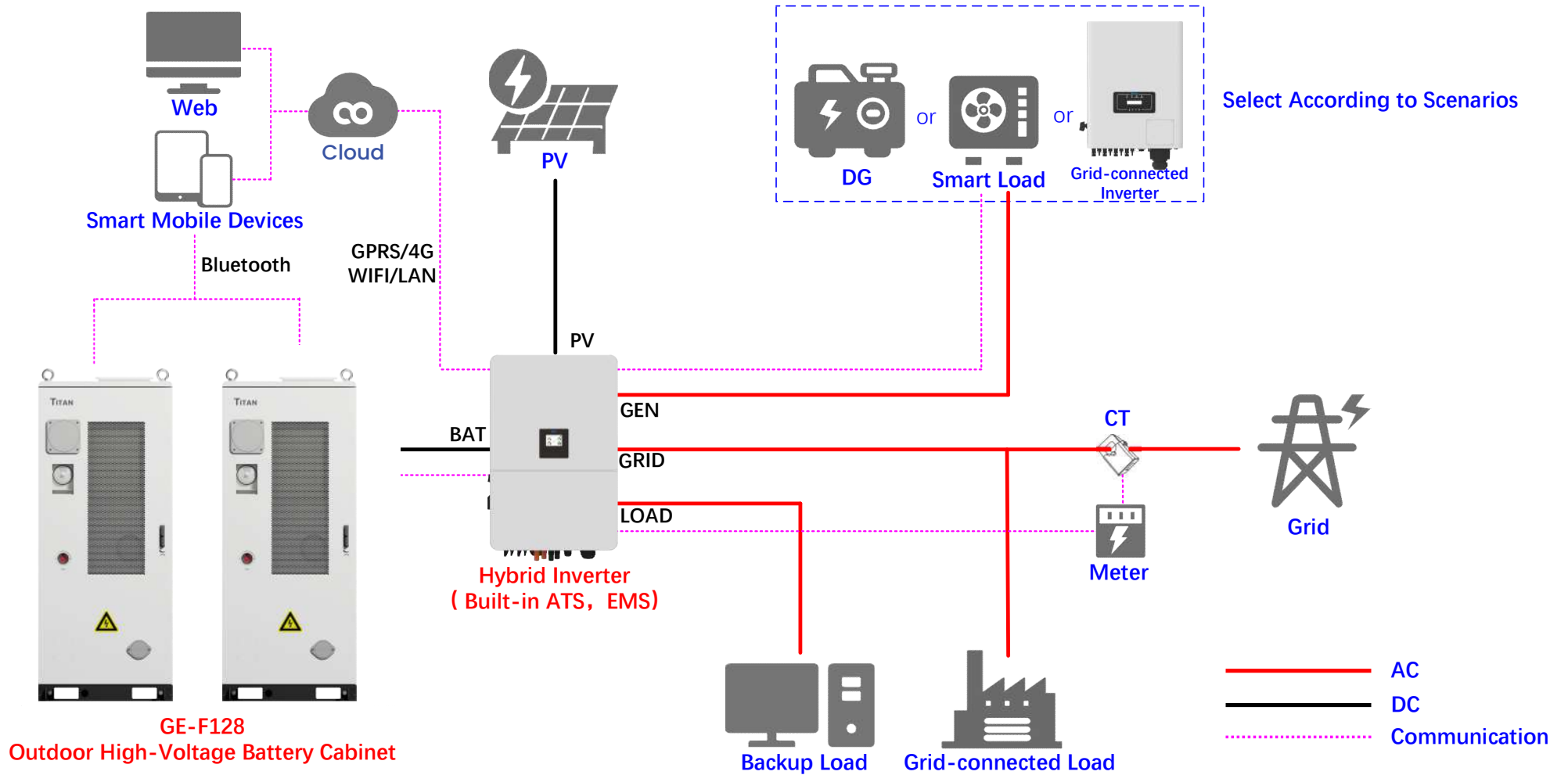
Safety Standard : NFPA 855、NFPA 68/69、UL9540A  
Regulation Standard : UN38.3、UL1973、UL9540-DC

## Outdoor ESS Battery Cabinet Parameters

Model	GE-F128-BC-4-A3
Cell/Module	1P16S*314Ah, 51.2V, 16.07kWh, LFP
Quantity of Module	8
Nominal Energy	128.6kWh
Nominal Voltage (Operating Voltage Range)	409.6V (320~467.2V)
Operating Rate	0.5P
Max Charge/Discharge Current (Lithium Battery Mode)	200A
Cooling Method	Smart Air Cooling
Operating Environment	-30~55°C, 5~95%(No Condensing), Altitude≤3000m
Protection and Fire Suppression	IP55, C4-M Pack-level and Cabinet-level Aerosol, Smoke/Temp/CO detection, Active ventilation, Physical explosion venting, water suppression
Communication Port	CAN, RS485, TCP/IP, Local Bluetooth
Dimension(W x D x H , mm)	W 998 x D 1240 x H 2400 mm
Weight	1700kg
Warranty	10 Years

# Outdoor Battery Cabinet + Hybrid Inverter Typical Application Topologies (PV-storage, PV-storage-diesel, AC-coupled with existing PV, etc.)

## HESS HYBRID ENERGY STORAGE SYSTEM



# Outdoor Battery Cabinet + Hybrid Inverter Application Scenarios

## HESS HYBRID ENERGY STORAGE SYSTEM



### Factory

PV-Storage | Diesel-Storage | Battery-Only Storage  
Grid-Connected | Grid-Connected/Off-Grid  
Switching System



### Mall

PV-Storage | Diesel-Storage | Battery-Only Storage  
Grid-Connected | Grid-Connected/Off-Grid  
Switching System



### Farm & Livestock Farm

PV-Storage | PV-Storage-Diesel Applications  
Grid-Connected/Off-Grid Switching System



### Off-Grid Areas

PV-Storage | PV-Storage-Diesel  
and Other Microgrid Applications  
Off-Grid System

Designed specifically for microgrid scenarios such as small-scale commercial and industrial (C&I), farms, islands and other areas

# Outdoor Battery Cabinet + Hybrid Inverter Configuration Solution

## HESS HYBRID ENERGY STORAGE SYSTEM



GE-F128



Hybrid Inverter  
30/60kW

Power Unit	Battery Cabinet	Specification
<b>2h ESS Solution</b>		
SUN-60K-SG01HP3-US-BM4-277V (50A*2)	GE-F128-BC-4-A3	60kW/128kWh
SUN-30K-SG01HP3-US-BM4	GE-F128-BC-4-A3	30kW/128kWh