



# SMALL-SCALE C&I ESS SOLUTION

## HYBRID ENERGY STORAGE SYSTEM

GE-F128/F256 Series Outdoor Battery Cabinet

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Hybrid Inverter



### 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 fire sprinkler**
- High-intensity cabinet, **unique patented door latch design**, eliminates structural weak points
- **Hour-level fire resistance**, prevent heat spread



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

- Outer cabinet wall preset inverter bracket installation position, **no wall bearing concerns, no need to drill**
- Single cabinet can easily deploy **PV+BESS, PV+BESS+DG**
- Can be installed **side by side or back to back**, reducing the footprint



### Stable Efficient, Excellent performance ensures returns

- Long-life lithium iron phosphate battery, **≥ 8000 cycles**
- High-efficiency thermal management, no derating at 45°C, cell temperature difference **≤ 6°C**
- **0.63C** Max Continuous Charge/Discharge, Fast & Stable Power Supply



### Intelligent Management, Flexible adaptation and expansion

- Leading **rack-level + pack-level + cell-level** energy balancing algorithm, non-inductive pack change and cabinet expansion
- Single cabinet can be configured with a **2/3/4h ESS system**, up to **10 units** battery cabinet parallel
- Integrated energy platform, **24/7 AI** smart customization of optimal power usage strategies

# Outdoor Battery Cabinet

	GE-F128 Series		GE-F256 Series	
Model	GE-F128-BC-4-A3		GE-F256-BC-4-A3	
<b>Main Parameters</b>				
Cell Type	LiFePO <sub>4</sub>			
Module Capacity (Ah)	314			
Module Nominal Voltage (Vdc)	51.2			
Module Energy (kWh)	16.08			
Module Qty In Series	8			16
System Nominal Energy (kWh)	128.61			257.22
System Usable Energy (kWh) <sup>1</sup>	128.61			257.22
System Nominal Voltage (Vdc)	409.6			819.2
System Operating Voltage (Vdc)	320-467.2			640~934.4
Rated DC Power (kW)	64			128
Charge/Discharge Max. Continuous	200			
Current(A) <sup>2</sup> Peak discharge@15s/25±2°C	314			
Communication protocol	CAN2.0, Modbus, TCP/IP			
Operating Temperature(°C) <sup>3</sup>	-30~55			
Recommend Storage Temperature(°C)	0~35			
Humidity	5% ~ 95%RH (No Condensing)			
Altitude	3000m			
IP Protection	IP55			
Anti Corrosion Level	C4-M			
Auxiliary Power Voltage	AC 277V/AC 120V (Optional)		AC 480V	
Dimension(W x D x H,mm)	998 x 1240 x 2405.5		1300 x 1240 x 2510	
Weight(kg)	1700		2770	
Installation Location	Floor mount			
Cycle Life	≥8000 (25±2°C,0.5P,EOL70%)			
Warranty	10 years			
Certification	UN38.3, UL1973, UL9540A, UL9540-DC, NFPA855			

1. Test conditions : 100% DOD, 0.5P charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.
2. The current is affected by temperature and SOC.
3. Derated operation at > 45°C.

## HESS Solution (Recommend)



GE-F128 Series

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60K-3P-480V  
Battery Input Terminal Rating: 50A\*2  
ESS OperatingC- rate: 0.3C



30K-3P-208V  
Battery Input Terminal Rating: 50A\*2  
ESS OperatingC- rate: 0.23C



GE-F256 Series

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100K-3P-480V  
Battery Input Terminal Rating: 80A\*2  
ESS OperatingC- rate: 0.3C

Or



150K-3P-480V  
Battery Input Terminal Rating: 100A\*2  
ESS OperatingC- rate: 0.63C

### Power Unit

### Battery Cabinet Model

### Specification

#### 1.5h ESS Solution

150K-3P-480V

GE-F256-BC-4-A

150kW/257kWh

#### 2.5~3h ESS Solution

60K-3P-480V

GE-F128-BC-4-A

40kW/128kWh

100K-3P-480V

GE-F256-BC-4-A

100kW/257kWh

#### 4h ESS Solution

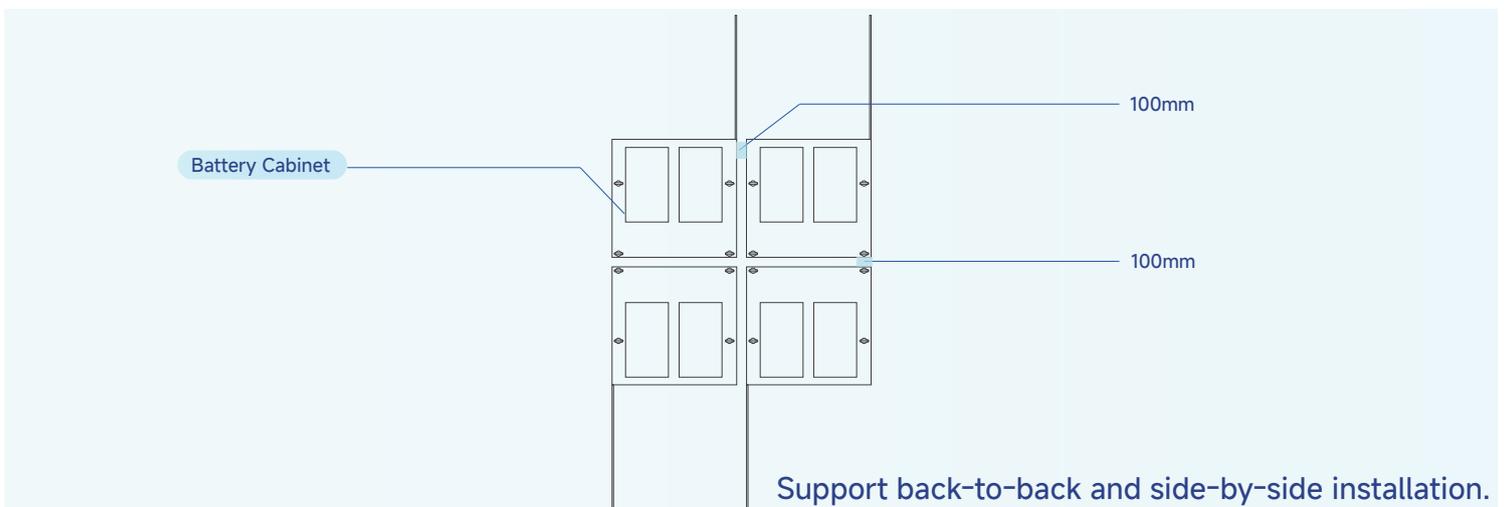
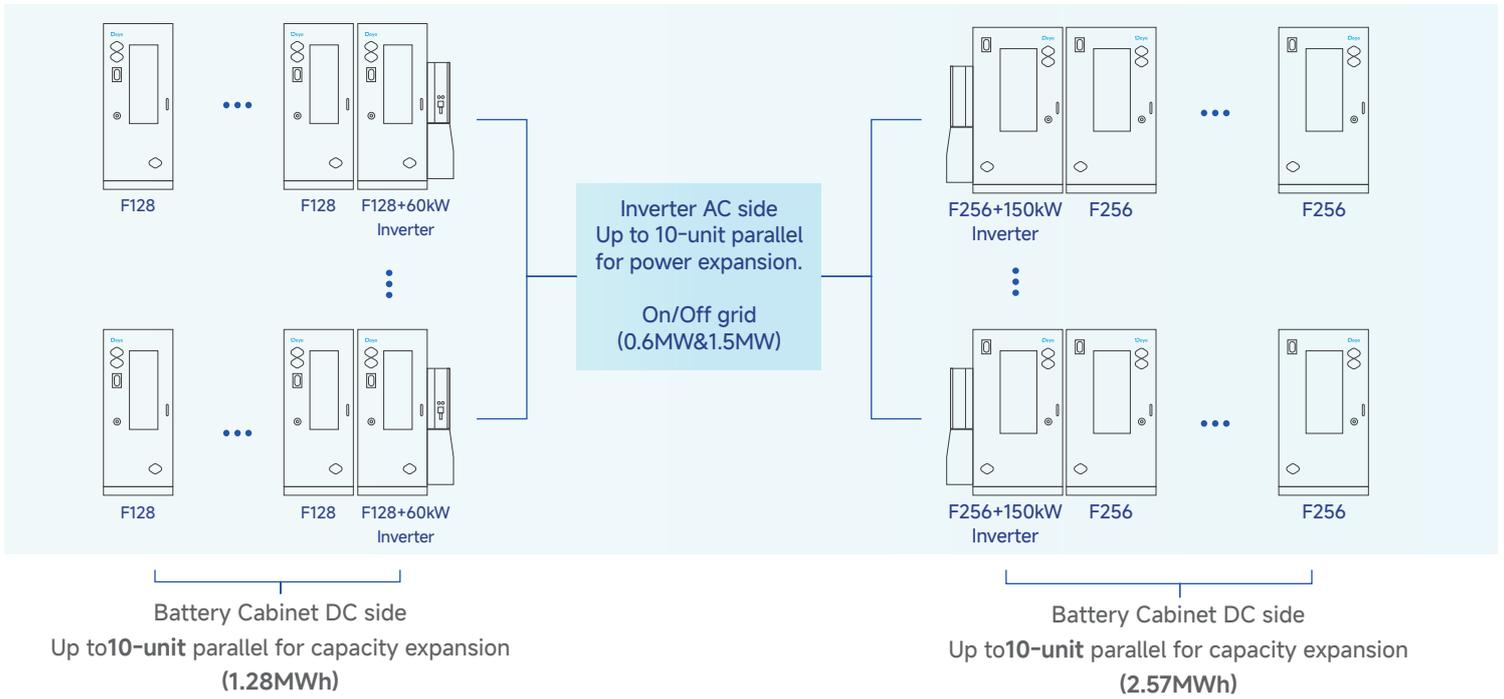
30K-3P-208V

GE-F128-BC-4-A

30kW/128kWh

# AC/DC Side Parallel Expansion (Capacity & Power)

## HESS HYBRID ENERGY STORAGE SYSTEM



# Deye Cloud

## All-in-one Energy & Device Management Platform

- Unlock significant savings
- Individual Add-on for dynamic tariff
- Intelligent charging/discharging strategies
- Tailored solution to deye devices
- Real-time equipment monitoring
- Best energy scheduling solutions by Deye Copilot
- 24/7 AI Assistant support

Switch flexibly between autonomous and manual control



Display energy savings and costs



Support dynamic tariff and flat-rate

### AI Assistant



Offer response suggestions and personalized support experience

Support over 30 languages

Analyze dynamic pricing, predict power load and PV generation to optimize energy dispatch and minimize electricity costs



## Smarten Up Your Hybrid Energy Storage System



Download Deye Cloud APP to join us!

Embrace a seamless, effortless energy experience that's both eco-friendly and budget-friendly with our intelligent assistant



**APP & Web**  
Manage your energy effortlessly

**Cloud-edge Collaboration**  
Faster and more efficient

**Accelerated Connection**  
Optimized for speed and performance

**Localized Data Centers**  
Ensure data sovereignty and compliance in EU & US

**Deye Copilot**  
AI-powered energy analysis and control

**AI Assistant**  
24/7 support, fast, efficient, in your language



**POWERING YOUR LIFE**



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Deye ESS / Deye New Energy