



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

Main Parameters

Cell Type	LiFePO ₄	
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) ¹	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) ² Peak discharge@15s/25±2°C	314	
Communication protocol	CAN2.0, Modbus, TCP/IP	
Operating Temperature(°C) ³	-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

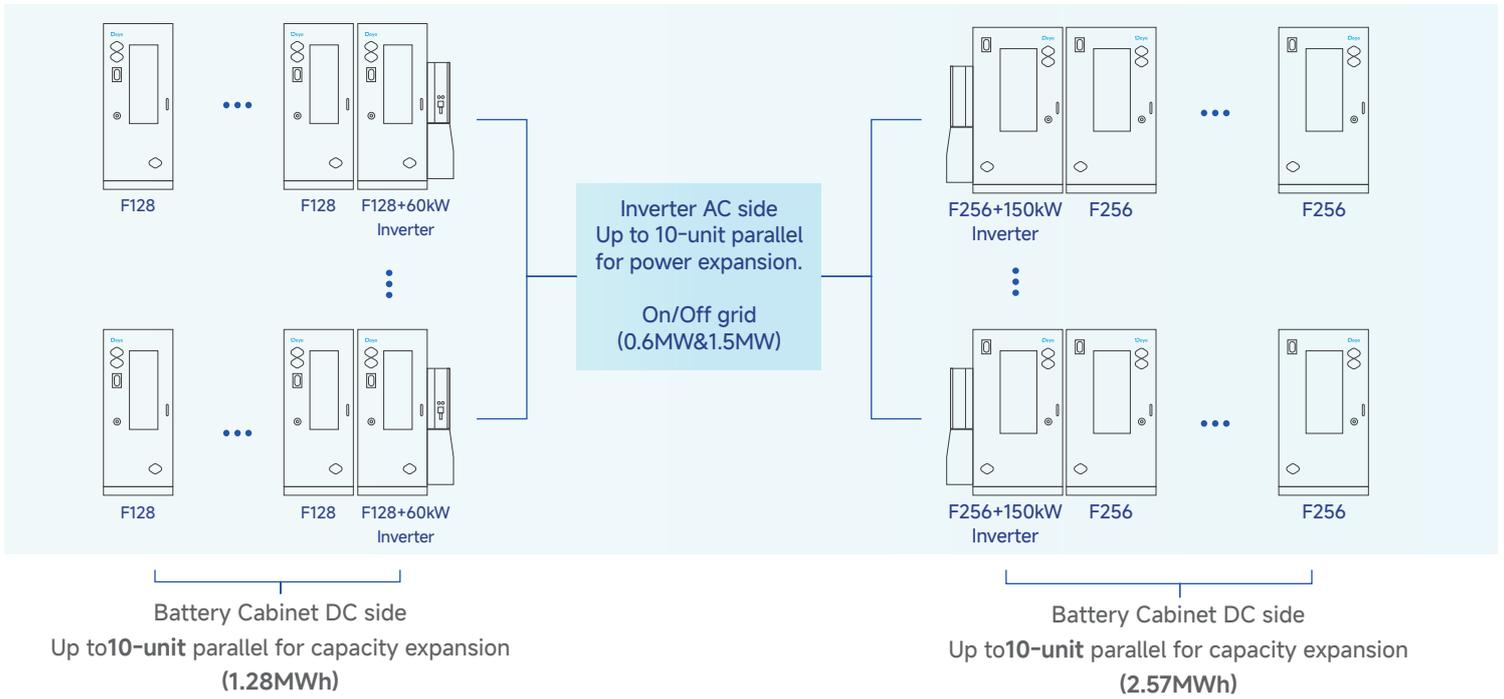
30K-3P-208V

GE-F128-BC-4-A

30kW/128kWh

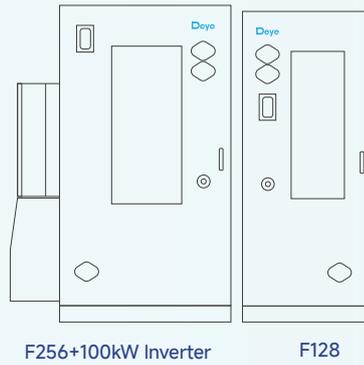
AC/DC Side Parallel Expansion (Capacity & Power)

HESS HYBRID ENERGY STORAGE SYSTEM

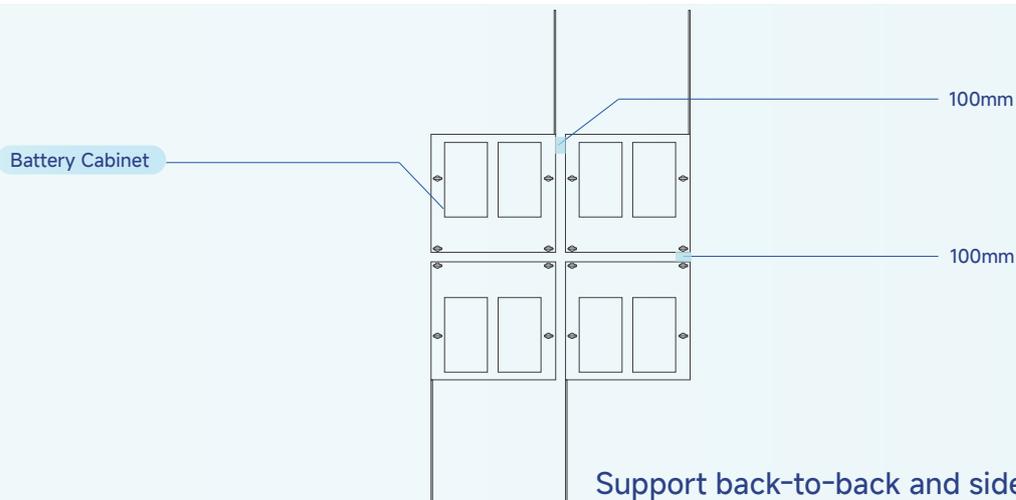


Compatible with battery cabinets of different specifications

The inverter supports two independent battery inputs



Supports 100kW/385kWh systems and other configurations



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



<p>APP & Web Manage your energy effortlessly</p>	<p>Cloud-edge Collaboration Faster and more efficient</p>	<p>Accelerated Connection Optimized for speed and performance</p>	<p>Localized Data Centers Ensure data sovereignty and compliance in EU & US</p>	<p>Deye Copilot AI-powered energy analysis and control</p>	<p>AI Assistant 24/7 support, fast, efficient, in your language</p>
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POWERING YOUR LIFE



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