




ORION E SMALL-SCALE C&I ESS SOLUTION

GE-F128/F256 Outdoor Battery Cabinet


+

Hybrid Inverter

-  **Ultimate Protection, Continuing "0" safety accidents**
- **Six-dimensional** safety design, eliminating the risk of fire and explosion
 - **D1 electrical isolation + D2 fire detection + D3 active exhaust + D4 explosion venting + D5 fire suppression + D6 Thermal isolation**
 - 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+ESS, PV+ESS+DG**

-  **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 **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

GE-F128/F256 Outdoor Battery Cabinet

Model	GE-F128-BC-4-A1	GE-F256-BC-4-A1
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	257.23
System Usable Energy (kWh) ¹	128.61	257.23
System Nominal Voltage (Vdc)	409.6	819.2
System Operating Voltage (Vdc)	320-467.2	640-934.4
Rated DC Power (kW)	64	129
Max. DC Power (kW)	80	160
Charge/Discharge Max. Continuous Current(A) ²	200	
Peak discharge@15s/25±2°C	295	
Communication Port	CAN, RS485, 4G(Optional)	
Communication protocol	CAN2.0, Modbus485	
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	Standard: C4-M, customizable up to C5	
Auxiliary Power Voltage	AC 277V/AC 208V (Optional)	AC 277V (Required with transformer accessories)
Dimension(W x D x H,mm)	998 x 1240 x 2405.5	1303 x 1240 x 2510
Weight(kg)	1760	2790
Installation Location	Floor mount	
Cycle Life	≥8000 (25±2°C,0.5P,EOL70%)	
Warranty	10 years	
Compliance Standard ⁴	UN38.3, UL1973, UL9540A, UL9540-DC, NFPA855, FCC	

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.

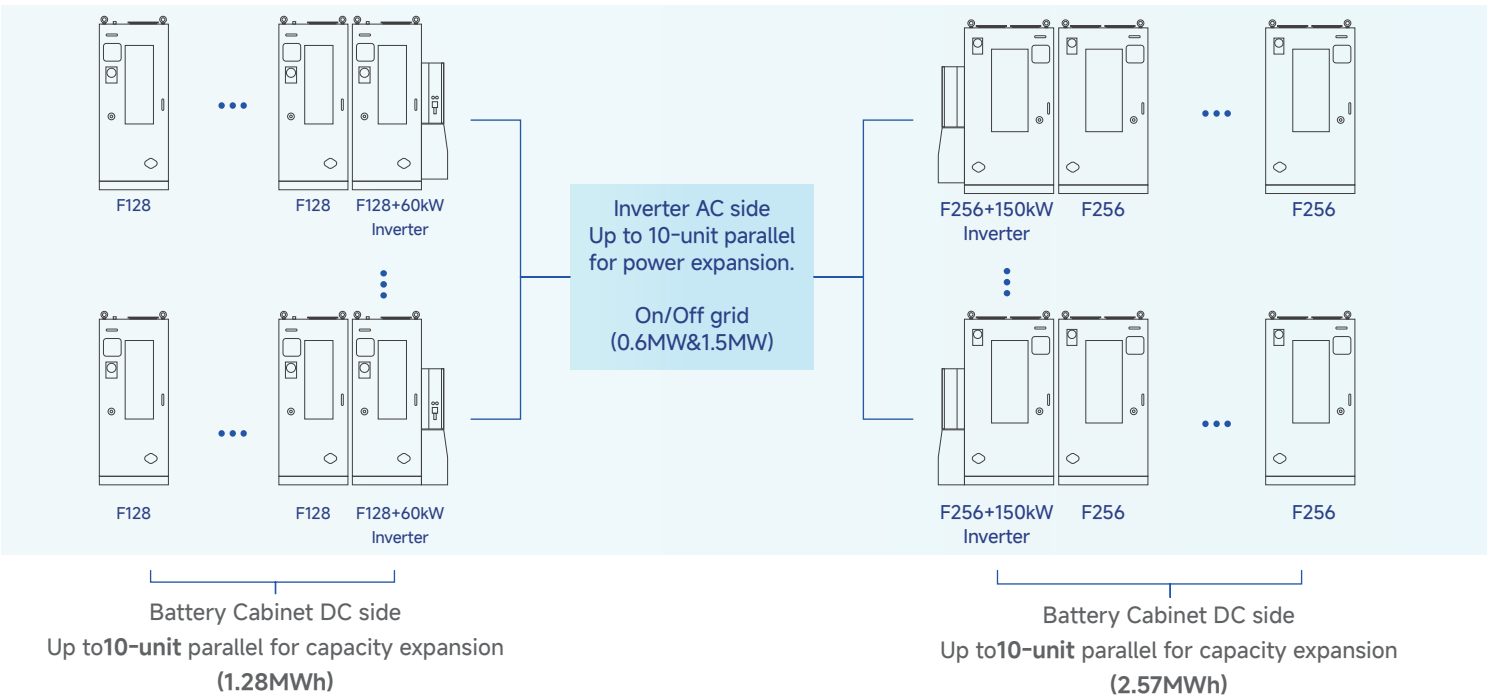
4.This document reflects current technology and is subject to change without notice. Refer to the Deye website for the latest information.

HESS Solution (Recommend)



Power Unit	Battery Cabinet Model	Specification
1.5h ESS Solution		
150K-3P-480V (100A*2)	GE-F256-BC-4-A1	150kW/257kWh
2h ESS Solution		
60K-3P-480V (160A)	GE-F128-BC-4-A1	60kW/128kWh
2.5~3h ESS Solution		
60K-3P-480V (50A*2)	GE-F128-BC-4-A1	40kW/128kWh
4h ESS Solution		
30K-3P-208V (50A*2)	GE-F128-BC-4-A1	30kW/128kWh

AC/DC Side Parallel Expansion (Capacity & Power) HESS HYBRID ENERGY STORAGE SYSTEM



Deye APP

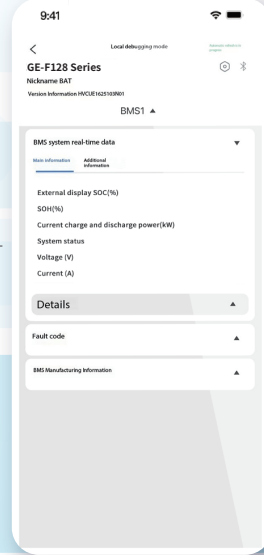
Bluetooth APP Monitoring

Low Power (Bluetooth LE)

Automated upgrade



Local monitoring mode for battery



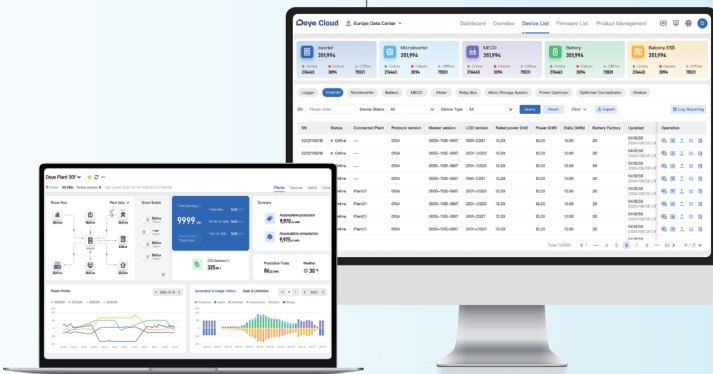
Quick Pairing

No Internet Needed

Portable Control



Remote monitoring mode for ESS(Deye Battery Cabinet)



Real-time Equipment Monitoring

Intelligent Charging/Discharging Strategies

AI Data Analytics

Customized Maintenance

Smarten Up Your Home Energy



Download Deye APP to join us!

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



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