



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)	345.6~467.2	691.2~924.4	
Rated DC Power (kW)	64	129	
Max. DC Power (kW)	80	160	
Charge/Discharge Max. Continuous	200		
Current(A) ^{*2}	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		
UL50E Type	Type 3R		
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.

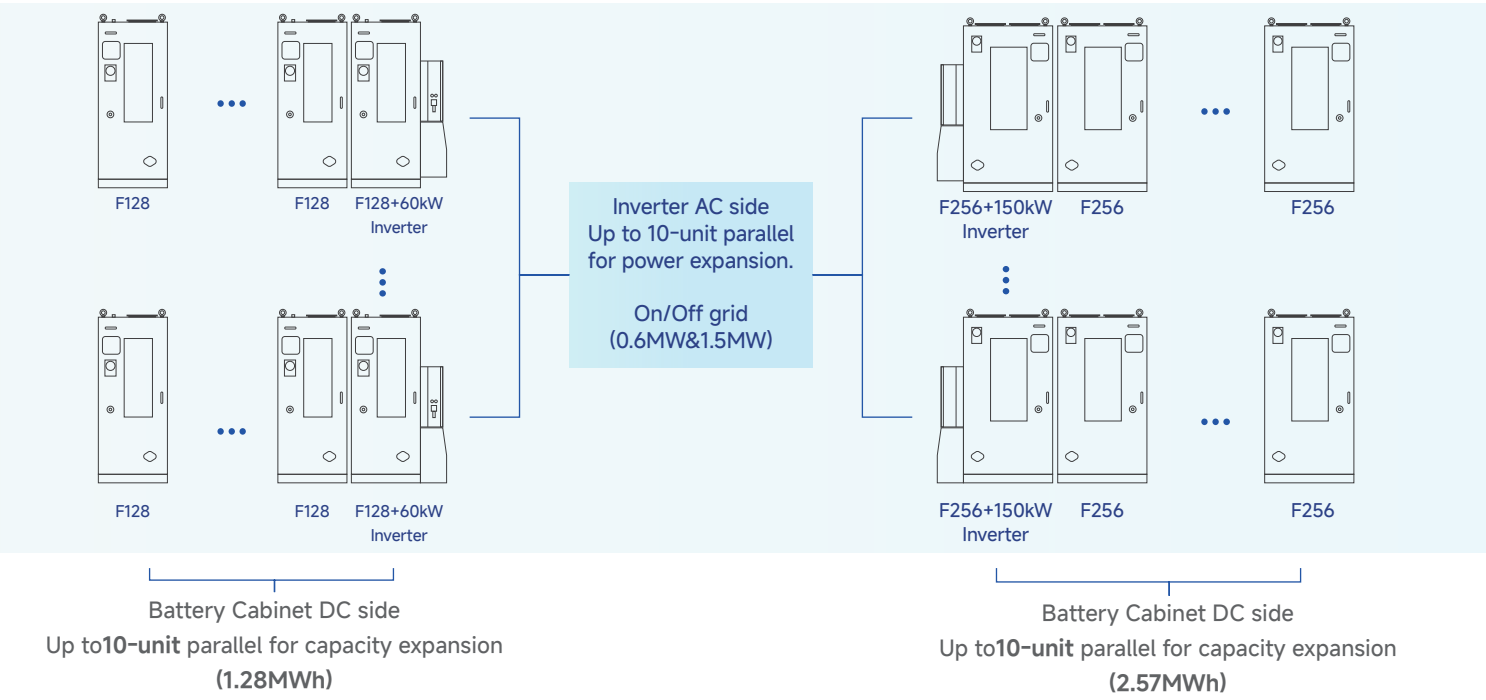
4.This document reflects current technology and is subject to change without notice. Refer to the Deye website for the latest information.

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



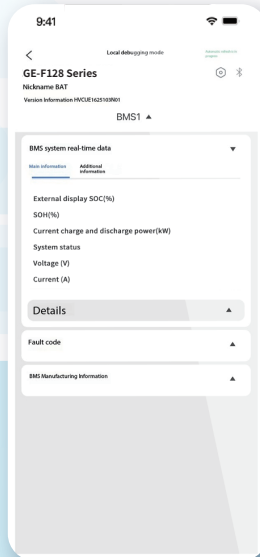
Low Power (Bluetooth LE)



Automated upgrade



Local monitoring mode for battery



Quick Pairing



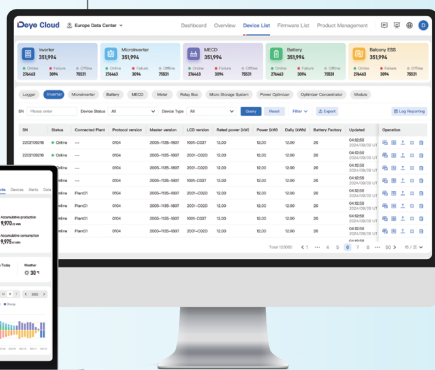
No Internet Needed



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



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



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