



ORION E SMALL-SCALE C&I ESS SOLUTION

GE-F256 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 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**
- 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 **pack-level + cell-level** energy balancing algorithm, non-inductive pack change and cabinet expansion
- Single cabinet can be configured with a **1.5h ESS system**, up to **10 units** battery cabinet parallel
- Integrated energy platform, **24/7 AI** smart customization of optimal power usage strategies

GE-F256 Outdoor Battery Cabinet

Model		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	16	
System Nominal Energy (kWh)	257.23	
System Usable Energy (kWh) ¹	257.23	
System Nominal Voltage (Vdc)	819.2	
System Operating Voltage (Vdc)	640~934.4	
Rated DC Power (kW)	129	
Max. DC Power (kW)	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	
IP Protection	IP55	
Anti Corrosion Level	Standard: C4-M, customizable up to C5	
Auxiliary Power Voltage	AC 277V (Required with transformer accessories)	
Dimension(W x D x H,mm)	1303x1240x2510	
Weight(kg)	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	

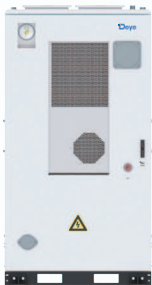
1. Test conditions : 100% DOD, 0.5P charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.

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)



GE-F256 Series

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Under development

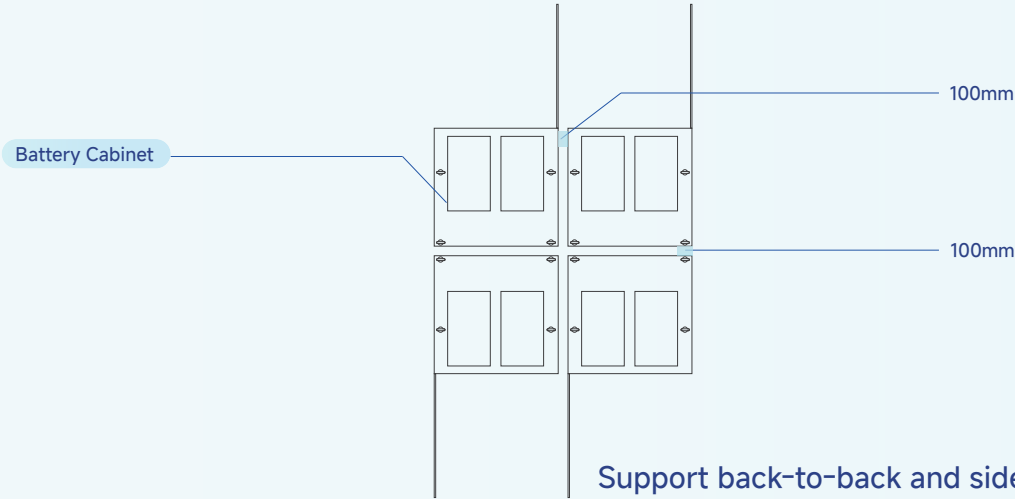
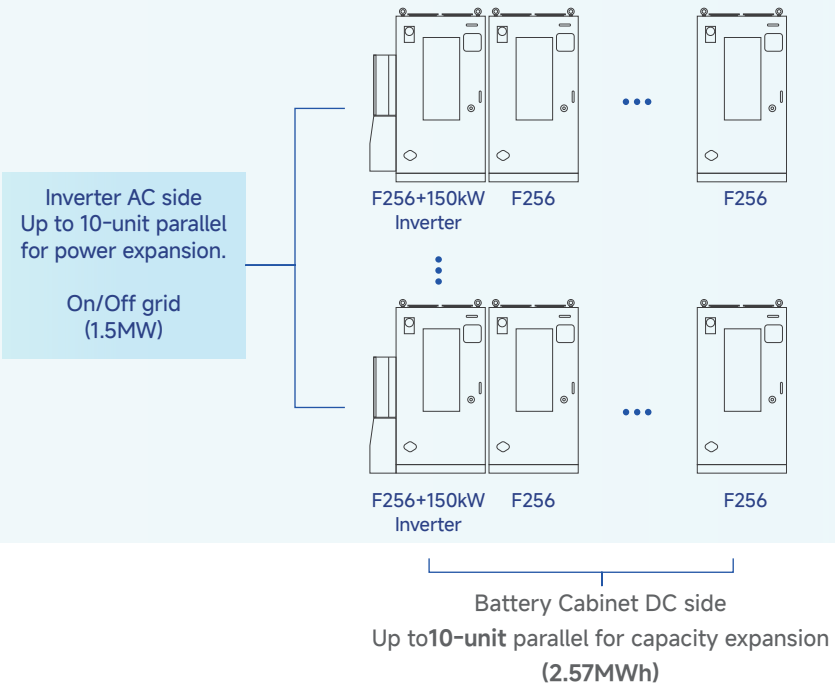


150K-3P-480V
Battery Input Terminal Rating: 100A*2

Power Unit	Battery Cabinet Model	Specification
1.5h ESS Solution		
150K-3P-480V (100A*2)	GE-F256-BC-4-A1	150kW/257kWh

AC/DC Side Parallel Expansion (Capacity & Power)

HESS HYBRID ENERGY STORAGE SYSTEM



Deye APP



Bluetooth APP Monitoring



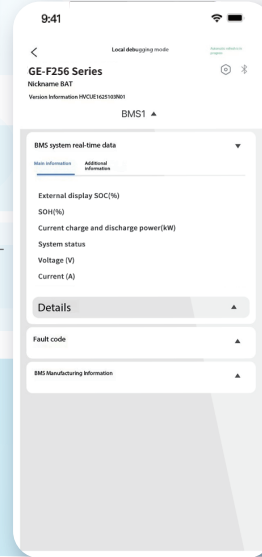
Low Power (Bluetooth LE)



Automated upgrade



Local monitoring mode for battery



Quick Pairing



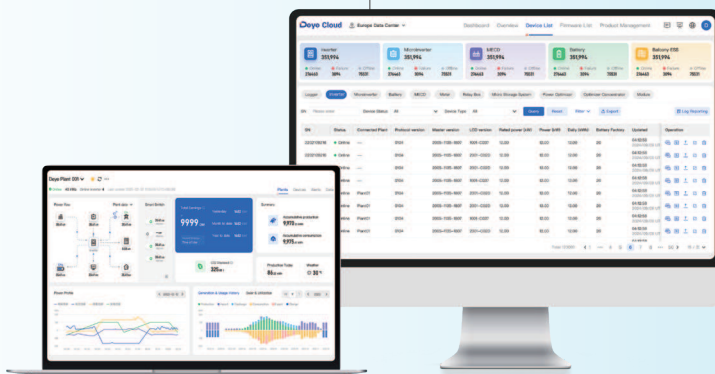
No Internet Needed



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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