




ORION E SMALL-SCALE C&I ESS SOLUTION ENERGY STORAGE SYSTEM

GE-F128/F256 Outdoor Battery Cabinet


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Hybrid Inverter

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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

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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

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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

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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
Charge/Discharge Max. Continuous	200	
Current(A) ² Peak discharge@15s/25±2°C	295	
Communication Port	CAN, RS485	
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	2770
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-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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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

2h ESS Solution

60K-3P-480V(160A)

GE-F128-BC-4-A3

60kW/128kWh

2.5~3h ESS Solution

60K-3P-480V

GE-F128-BC-4-A3

40kW/128kWh

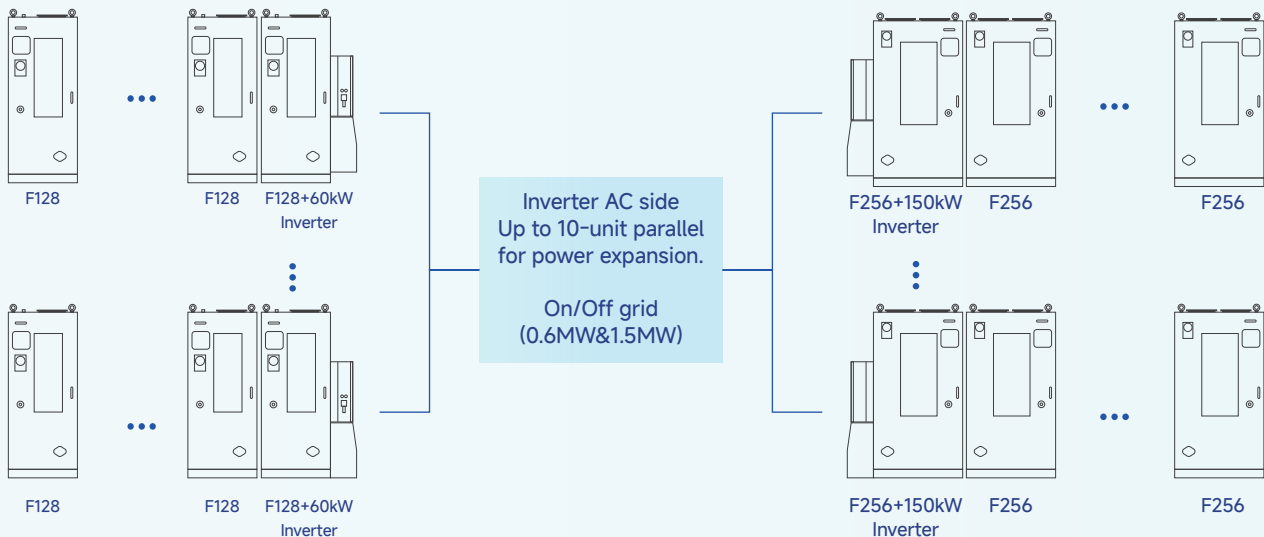
4h ESS Solution

30K-3P-208V

GE-F128-BC-4-A3

30kW/128kWh

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



Battery Cabinet DC side

Up to 10-unit parallel for capacity expansion
(1.28MWh)

Battery Cabinet DC side

Up to 10-unit parallel for capacity expansion
(2.57MWh)

Deye APP

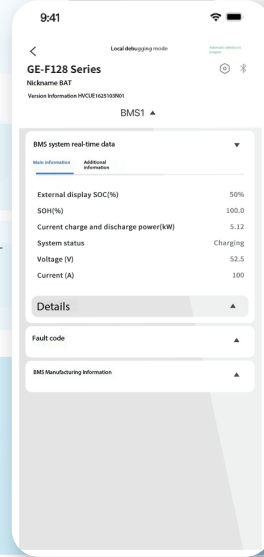
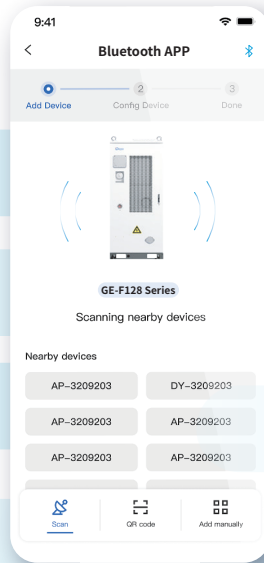
Bluetooth APP Monitoring

Low Power (Bluetooth LE)

Automated upgrade



Local monitoring mode for battery



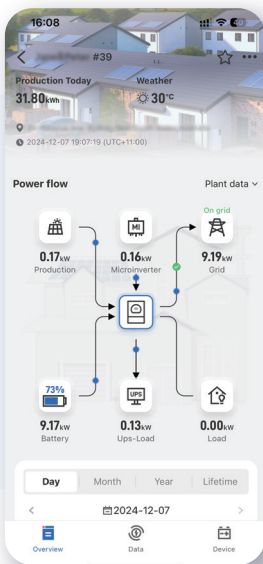
Quick Pairing

No Internet Needed

Portable Control



Remote monitoring mode for ESS(Deye Inverter&Battery)



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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POWERING YOUR LIFE



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