



ORION E SMALL-SCALE C&I ESS SOLUTION

GE-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**
- 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)	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

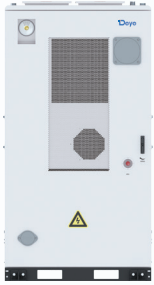
1. Test conditions : 100% DOD, 0.5P charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.

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-F256 Series

+

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

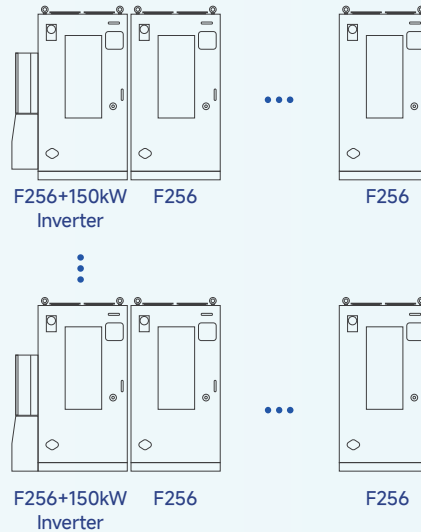
150kW/257kWh

AC/DC Side Parallel Expansion (Capacity & Power)

HESS HYBRID ENERGY STORAGE SYSTEM

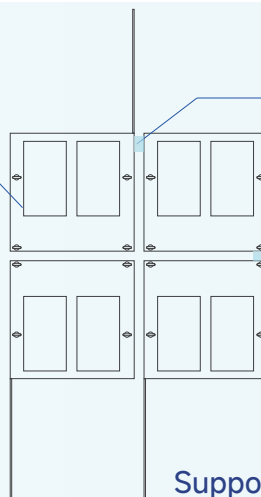
Inverter AC side
Up to 10-unit parallel
for power expansion.

On/Off grid
(1.5MW)



Battery Cabinet DC side
Up to 10-unit parallel for capacity expansion
(2.57MWh)

Battery Cabinet



100mm

100mm

Support back-to-back and side-by-side installation.

Deye APP

Bluetooth APP Monitoring

Low Power (Bluetooth LE)

Automated upgrade

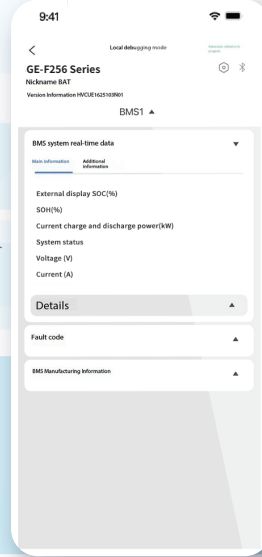


Local monitoring mode for battery

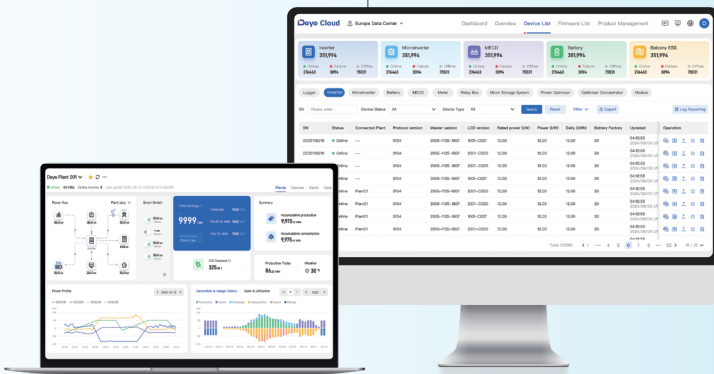
Quick Pairing

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



Deye ESS / Deye New Energy



www.deyeess.com / www.deyeinverter.com



POWERING YOUR LIFE



www.deyeess.com / www.deyeinverter.com



Deye ESS / Deye New Energy