2026 NEW

ORION E Series

Energy Storage Battery Cabinet

GE-F128/F240/F256（EU）Product Introduction

C&I ESS Solution

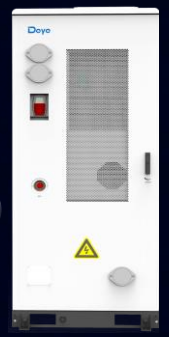


www.deyeinverter.com / www.deyeess.com

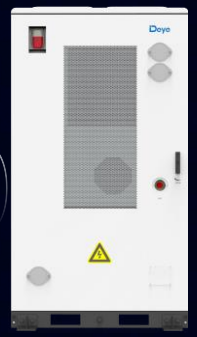
Deye ESS / Deye New Energy

Technical Data Energy Storage Battery Cabinet

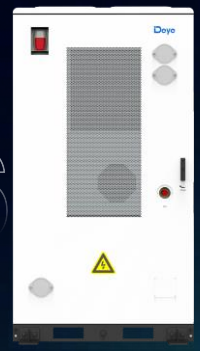
F128



F240



F256



Model	GE-F128 Series		GE-F240 Series			GE-F256 Series
	GE-F112-BC-2-A3	GE-F128-BC-2-A3	GE-F176-BC-2-A3	GE-F208-BC-2-A3	GE-F240-BC-2-A3	GE-F256-BC-2-A3
Cell/Module	1P16S*314Ah，51.2V，16.08kWh，LFP					
Quantity of Module	7	8	11	13	15	16
Nominal Energy	112.53kWh	128.61kWh	176.84kWh	208.99kWh	241.15kWh	257.23kWh
Nominal Voltage (Operating Voltage Range)	358.4V (280~408.8V)	409.6V (320~467.2V)	563.2V (440~642.4V)	665.6V (520~759.2V)	768.0V (600~876V)	819.2V (640~934.4V)
Operating Rate	0.5P					
Max Charge/Discharge Current	180A (Peak：285A@15s/20~45℃)					
Cooling Method	Smart Air Cooling					
Operating Environment	-30~55℃，5~95% (No Condensing)，Altitude≤3000m					
Protection and Fire Suppression	IP55，C4-M (Customizable up to C5) Pack level + cabinet level aerosol, Smoke+Temperature+CO detection, Active exhaust, Top explosion venting panel, Water fire fighting connection					
Communication Port	CAN，RS485，Bluetooth					
Dimension (W x D x H，mm)	W998 x D1240 x H2405.5 mm		W1303 x D1240 x H2405.5 mm			W1303 x D1240 x H2510 mm
Weight	1575kg	1690kg	2150kg	2380kg	2610kg	2770kg
Warranty	10 Years					
Safety Standard	NFPA 855, NFPA 68/69, UL9540A					
Regulation Standard	UN38.3, CE, IEC62619, IEC62477, IEC62933-5-2					

Product Upgrade

Energy Storage Battery Cabinet



vs. Deye's Older Air-cooling Products

Brand-new Intelligent Air Cooling

- Cell-level temperature control management
- Temperature difference reduced by **25%**

Brand-new Cell Integration

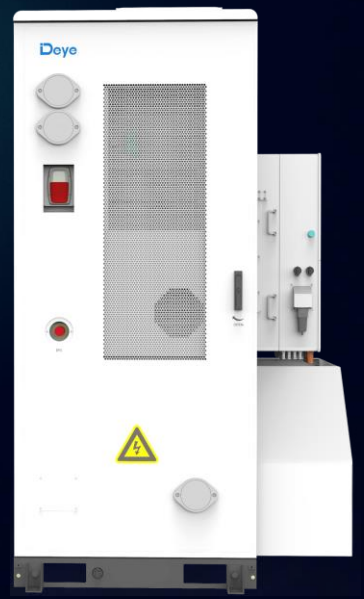
- Tirel A-grade **314Ah** cell
- Energy density increased by **35%+**

Brand-new Security Architecture

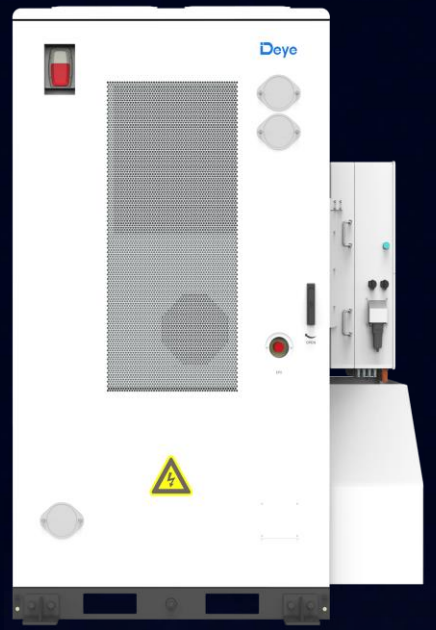
- Increase active and efficient exhaust
- Compliant the latest **NFPA 855** safety requirements

Product Features

Outdoor C&I ESS Solution



GE-F128 Series
+
30~60kW Hybrid Inverter

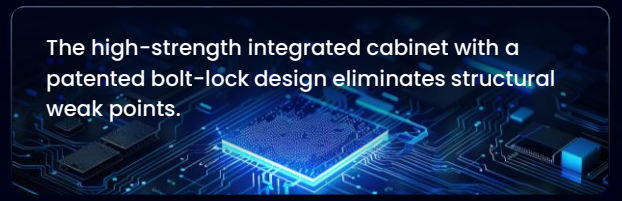


GE-F240/256 Series
+
50~125kW Hybrid Inverter
&
100/125kW PCS





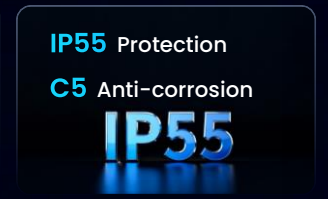








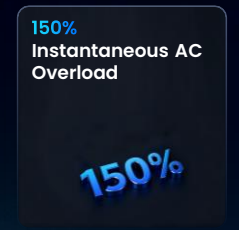












Six-Dimensional Safety Design

D1 Electrical Isolation

- Multi-level protection devices integrated throughout the main circuit.
- Millisecond-level shutdown to instantly cut off abnormal faults.



Six-Dimensional Safety Design

D2 Fire Detection

Smoke & Temperature Sensors
Rapid fire detection & aerosol suppression activation

Combustible Gas Sensor
CO detection & triggers active venting

Audio & Visual Alarm
Instant onsite audible and visual emergency alerts



Environmental Control Unit (ECU)
24/7 environmental & safety monitoring

Six-Dimensional Safety Design

D3 Active Exhaust

- High-precision gas detection （Exhaust Valve+Fan *2 & Intake Valve *1）
- Controlled ventilation channels
- Independent backup power support

Rapidly dilutes combustible gases to safe levels in under 1 min.





Six-Dimensional Safety Design

D4 Explosion Venting

- Top-mounted explosion vents for controlled, upward pressure release.
- Directional venting ensures 0 injury risk to surrounding areas.



Six-Dimensional Safety Design

D5 Fire Suppression

Aerosol Active Suppression

- Integrated pack- and cabinet-level aerosol fire extinguishing systems.

Water-based Suppression

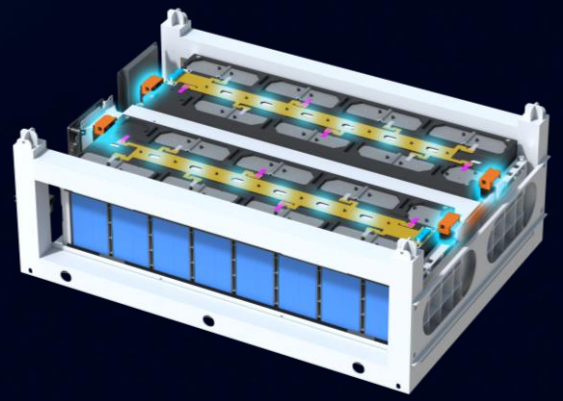
- Standard DN40 interface for direct and easy water pipe connection.
- Supports pre-connected for full cabinet immersion.



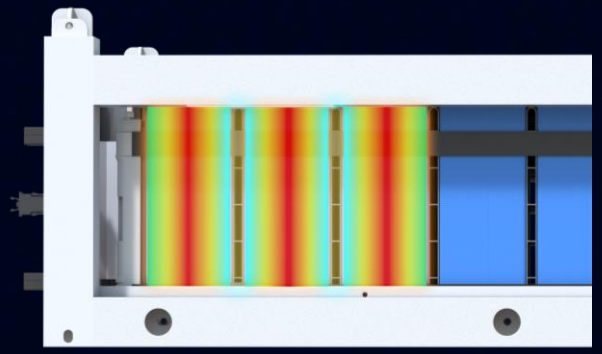
Six-Dimensional Safety Design

D6 Thermal Insulation

- **Isolated Internals**
  Separates electrical components and wiring from cells to prevent fire.



- **High-Flow Cooling**
  Rapid cell-level heat dissipation.



- **Rock Wool Lining**
  Hour-grade fire-rated cabinet walls.



Prevents fire from cell thermal runaway.
Stop heat propagation between cabinets.

High-Strength Cabinet

Patented Reinforced Door Lock

- Maintains cabinet integrity and prevents door detachment under extreme thermal runaway.

6
Heavy-duty Hinges



0 Bolt
Welding

10
Anchor Hooks

Internal Design Composition

GE-F240 Series Full Capacity 241kWh | Reduced Pack Quantity, Compatible with 208/176kWh

GE-F256 Series Full Capacity 257kWh |

MSD
- Maintenance: Disconnect circuit to reduce high voltage

Exhaust Valve+Fan (*2)
- Highly efficient, controllable, and reliable gas exchange pathway
- Redundant Safety (NFPA 855/69 Compliant)
- 1-Min Fast Reduction of Flammable Gas to Safe Concentration

Air Conditioner
- Top 3 Industry Brand, 5kW High Power
- Multi-mode Intelligent Temperature Control

Strengthened Door Lock Mechanism
- Multi-point hook locks attached, eliminating structural weak points

UPS
- 2-hour Emergency Power Supply for Fire Protection
- Supports System Black Start

Intake Valve (*1)
- High-efficiency, Reliable Gas Displacement Channel

PDU
- 1000V/180A
- Integrated BMS Master Controller
- Real-Time Monitoring of the Entire Cabinet Battery



Top Venting Plate (*2)
- Directional physical pressure relief, eliminating explosion

Air Conditioning Duct
- Three-level(Cell, Module, Pack) Precision Simulation Design
- Ensuring cells' temperature difference ≤6℃

Wall-Mount Holes (Both sides)
- Compatible with Deye 50-125kW inverter brackets

Pack*11/13/15 (GE-F240) , Pack*16 (GE-F256)
- 1P16S*314Ah / 16.07kWh
- Pack-Level Aerosol

Water Fire Fighting Interface
- DN40 standard interface
- Supports on-site fire hydrant pre-connection

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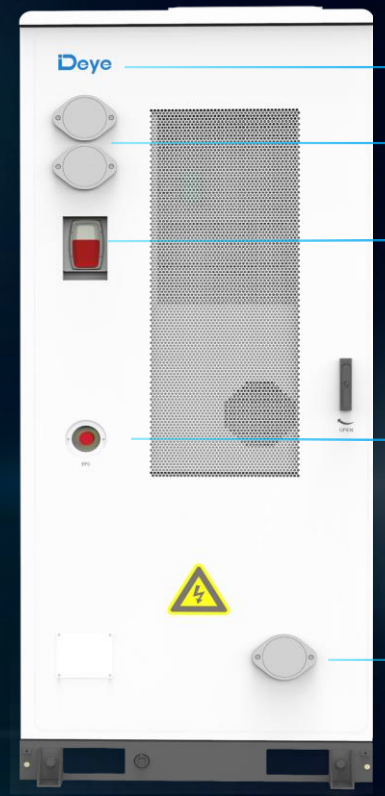
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Internal Design Composition

GE-F128/F240/F256 Series



GE-F128 Series

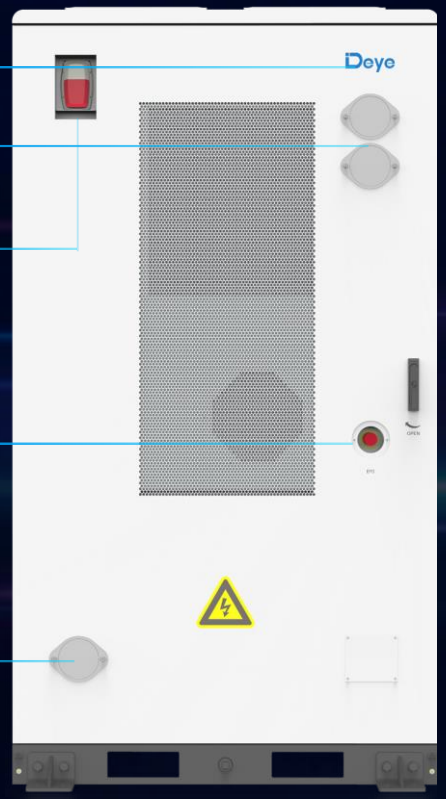
Logo Running Light

Exhaust Valve+Fan

Audible & Visual Alarm

Emergency Stop

Intake Valve



GE-F240/256 Series

Environmental Control Unit (ECU)
Door Lock, Water Leakage
Power & Communication Distribution Interface



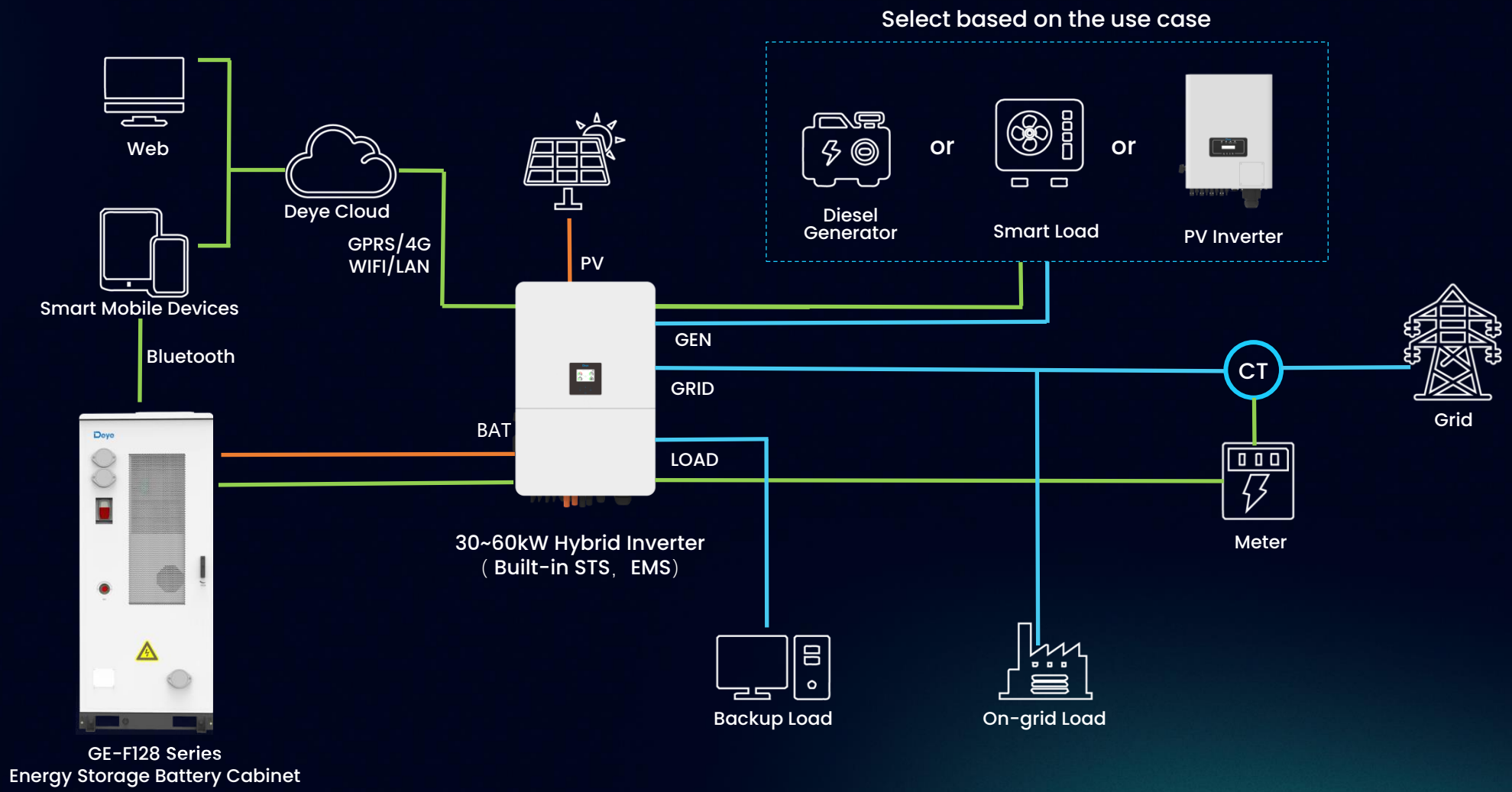
Fire Protection System
Smoke/Temp/CO Detection
Cabinet-level Aerosol
Support station-level fire control system access



Typical Application Topologies

Energy Storage Battery Cabinet + Hybrid Inverter

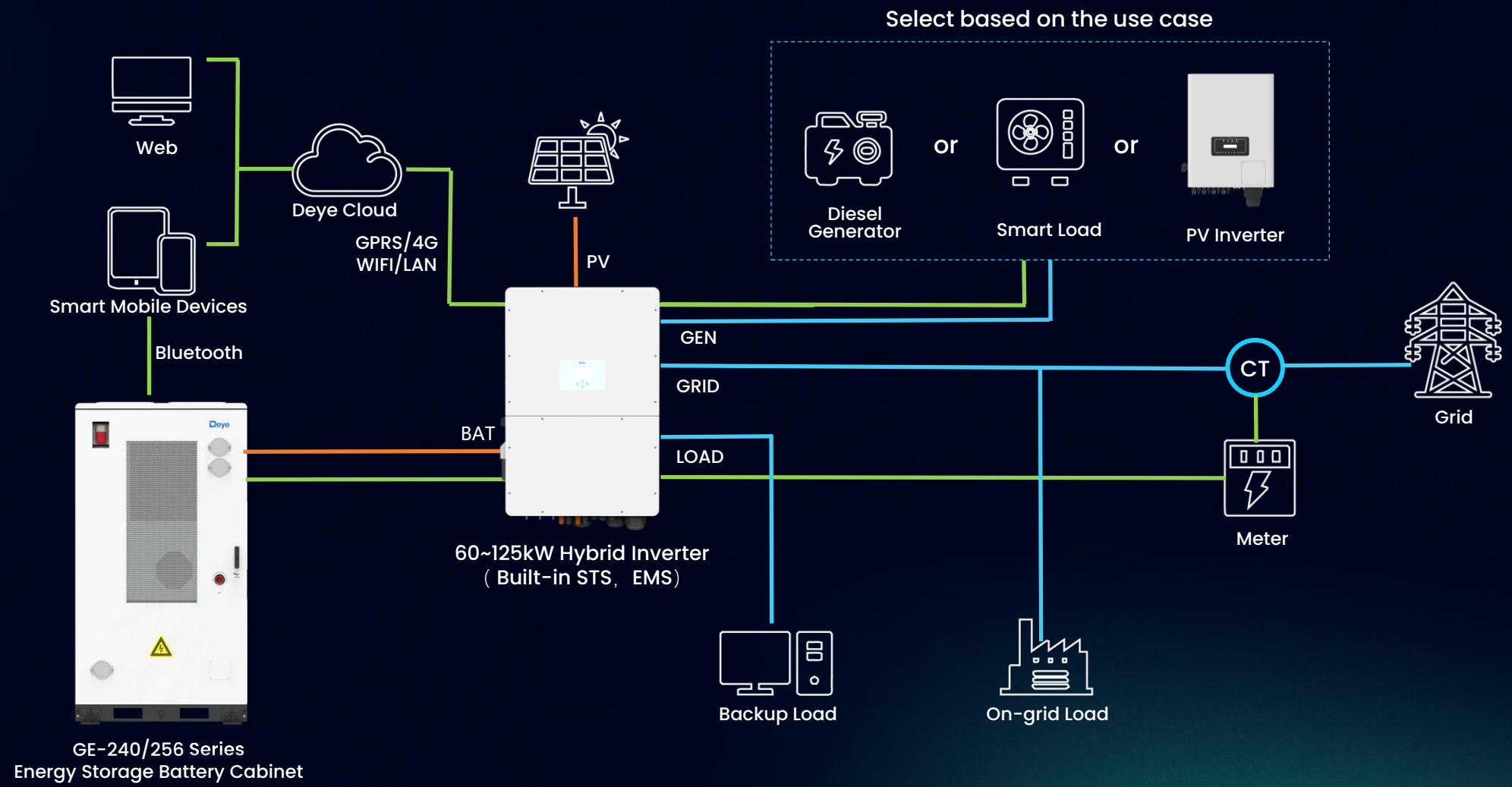
PV-ESS, PV-ESS-Diesel, AC Coupling for PV Retrofit, etc.



Typical Application Topologies

Energy Storage Battery Cabinet + Hybrid Inverter

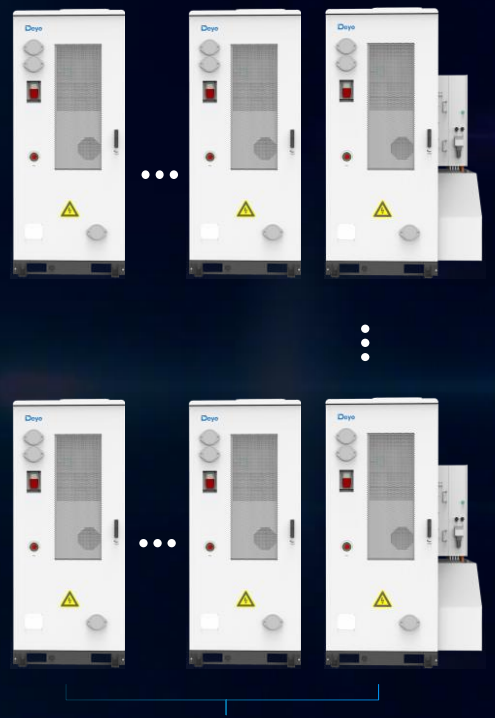
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AC/DC Side Parallel Expansion (Capacity & Power)

Energy Storage Battery Cabinet + Hybrid Inverter

GE-F128-BC-2-A3

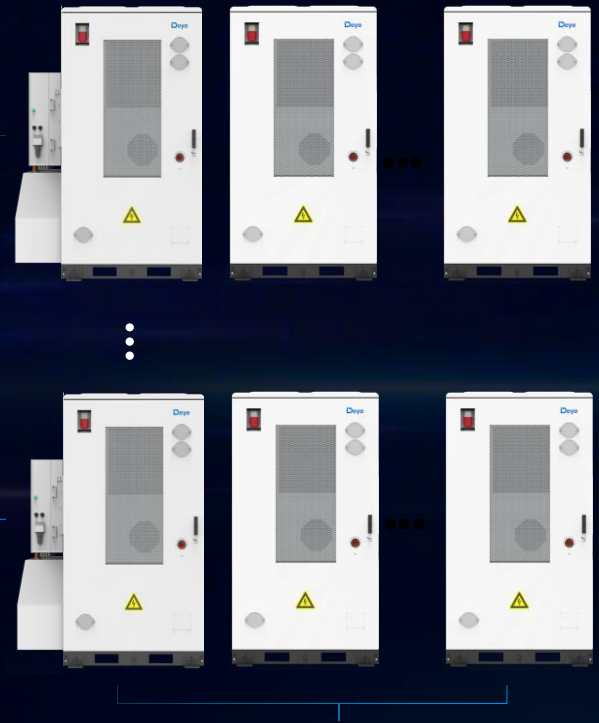


Battery Cabinet DC side
Up to **10-unit** parallel for capacity expansion
(1.28MWh)

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

On/Off grid
(0.6MW & 1.25MW)

GE-F240/256-BC-2-A3

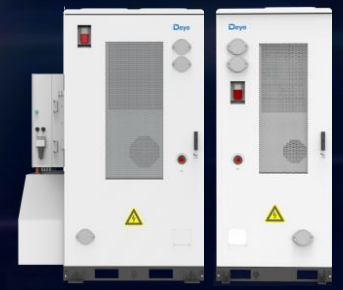


Battery Cabinet DC side
Up to **10-unit** parallel for capacity expansion
(2.41/2.57MWh)

Supports **60kW/6h** systems
and other configurations



GE-F128+60kW Hybrid GE-F240



GE-F256+126kW Hybrid GE-F128

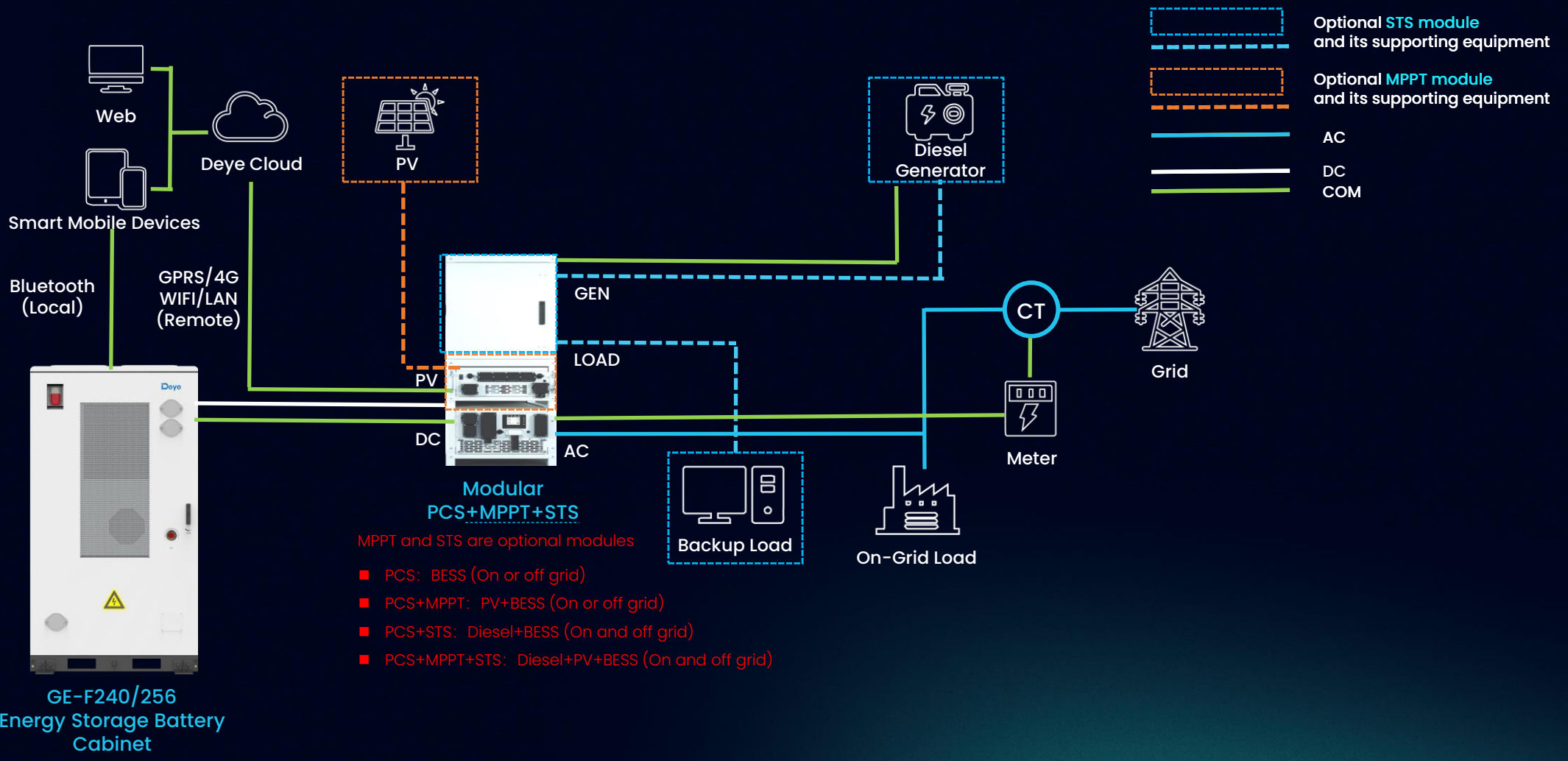
Supports **125kW/3h** systems
and other configurations
Compatible with battery cabinets of
different specifications

The inverter supports **2** independent
battery inputs

Typical Application Topologies

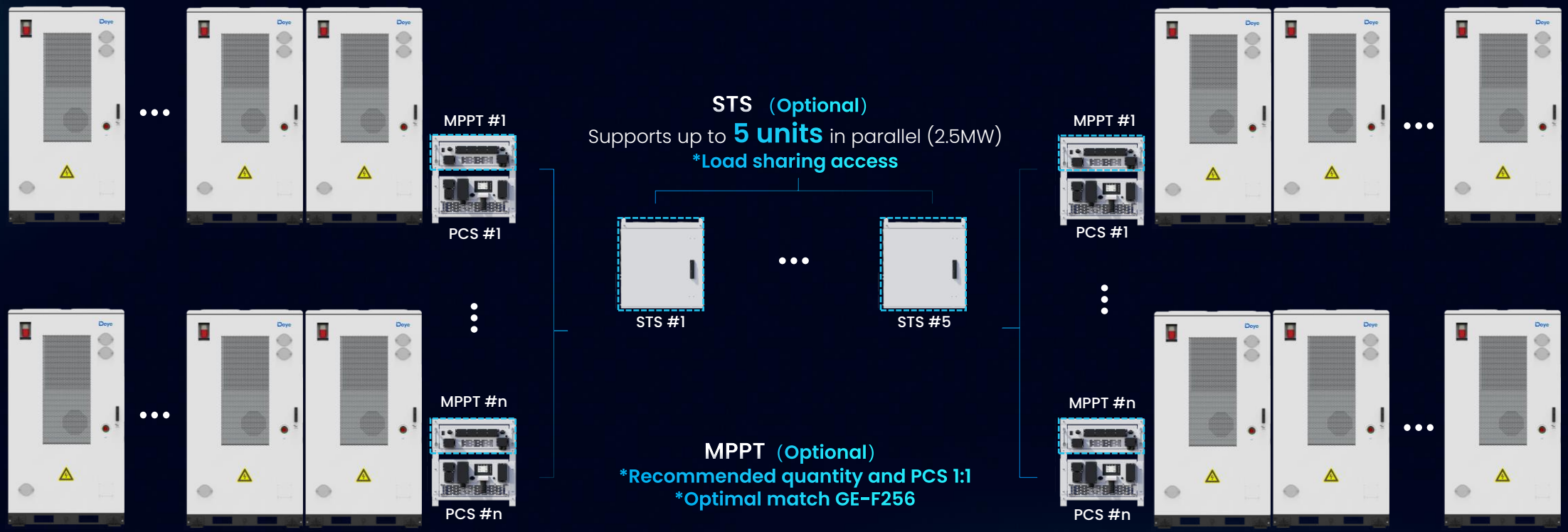
Energy Storage Battery Cabinet + Modular PCS&MPPT&STS

ESS, PV-ESS, PV-ESS-Diesel



AC/DC Side Parallel Expansion (Capacity & Power)

Energy Storage Battery Cabinet + Modular PCS+MPPT+STS



Battery Cabinet DC side
Single stack: supports up to **10 units** of parallel cabinet expansion
(GE-F240: **2.41MWh**)
(GE-F256: **2.57MWh**)

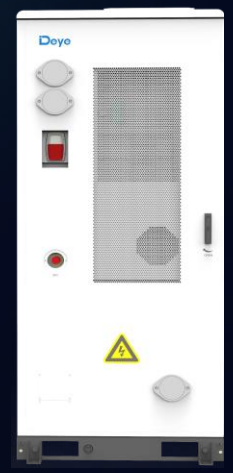
PCS AC side

On-grid or off-grid: Max. support for **20 units** in parallel expansion **(2.5MW)**

On and off grid: A single STS can support up to 4 units of **125k PCS** and 5 units of **100k PCS** access **(500kW)**

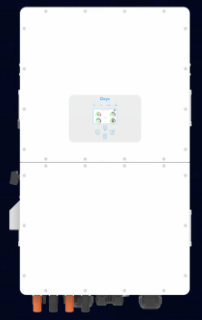
System Configuration Solution

Energy Storage Battery Cabinet + Hybrid Inverter



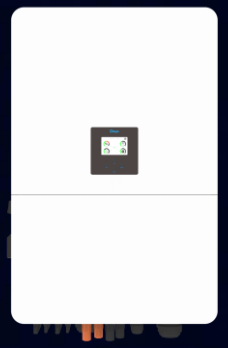
GE-F128 Series

+



Hybrid Inverter
30/40/50kW

Or

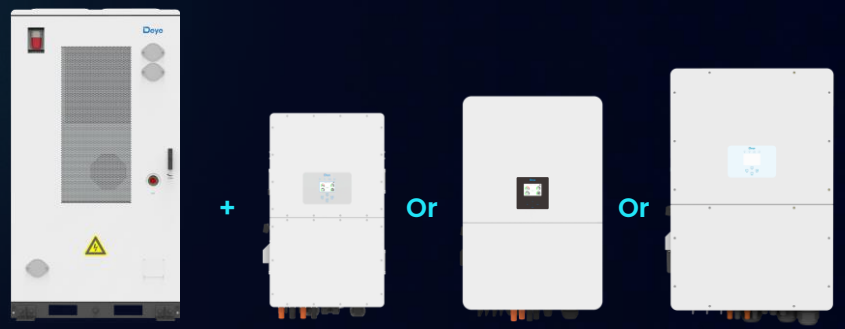


Hybrid Inverter
60kW

Power Unit	Battery Input (Current / Number)	Battery Cabinet	Specification
2h ESS Solution			
SUN-50K-SG02HP3-EU-BM4-P	(160A*1)	GE-F112-BC-2-A3	50kW/112kWh
SUN-60K-SG02HP3 -EU-EM6	(80A*2)	GE-F128-BC-2-A3	60kW/128kWh
3h ESS Solution			
SUN-40K-SG02HP3-EU-BM4	(100A*1)	GE-F128-BC-2-A3	40kW/128kWh
4h ESS Solution			
SUN-30K-SG01HP3-EU-BM3	(100A*1)	GE-F128-BC-2-A3	30kW/128kWh

System Configuration Solution

Energy Storage Battery Cabinet + Hybrid Inverter / Modular PCS, MPPT & STS



GE-F240 Series | Hybrid Inverter 50kW | Hybrid Inverter 60/70/80kW | Hybrid Inverter 100/125kW

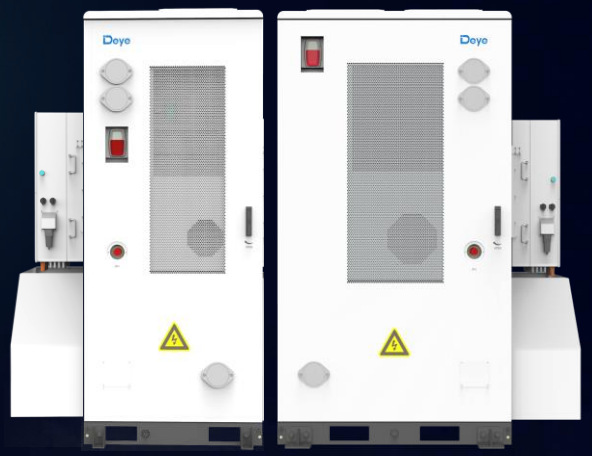


GE-F256 Series | Hybrid Inverter 125kW | Modular PCS+MPPT+STS 100kW/125kW+200kWp

Power Unit	Battery Input (Current / Number)	Battery Cabinet	Specification
2h ESS Solution			
SUN-80K-SG02HP3-EU-EM6	(80A*2)	GE-F176-BC-2-A3	80kW/176kWh
SUN-100K-SG02HP3-EU-GM8/10	(100A*2)	GE-F208-BC-2-A3	100kW/208kWh
SUN-100K-PCS02HP3	(175A*2)		
SUN-125K-SG02HP3-EU-GM10	(100A*2)	GE-F240/F256-BC-2-A3	125kW/241 & 257kWh
SUN-125K-PCS02HP3	(200A*1)		
SUN-125K-PCS02HP3+SUN-MPPT-L01-EU+SUN-STS500L	(200A*1)	GE-F256-BC-2-A3	125kW/257kWh
3h ESS Solution			
SUN-60K-SG02HP3-EU-EM6	(80A*2)	GE-F176-BC-2-A3	60kW/176kWh
SUN-70K-SG02HP3-EU-EM6	(80A*2)	GE-F208-BC-2-A3	70kW/208kWh
SUN-80K-SG02HP3-EU-EM6	(80A*2)	GE-F240-BC-2-A3	80kW/241kWh
4h ESS Solution			
SUN-50K-SG02HP3-EU-BM4	(100A*1)	GE-F208-BC-2-A3	50kW/208kWh
SUN-60K-SG02HP3-EU-EM6	(80A*2)	GE-F240-BC-2-A3	60kW/241kWh

Easy Installation & Maintenance

Battery Cabinet Installation



Bluetooth USB

Local debugging and upgrading

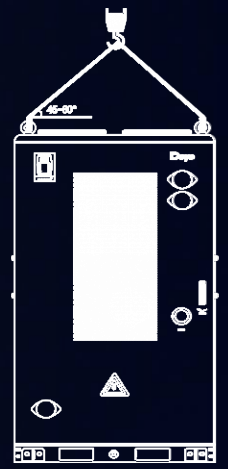
Deye Cloud

Remote monitoring and upgrades are supported via the Deye inverter

Multiple approaches and methods enable intelligent local and remote O&M

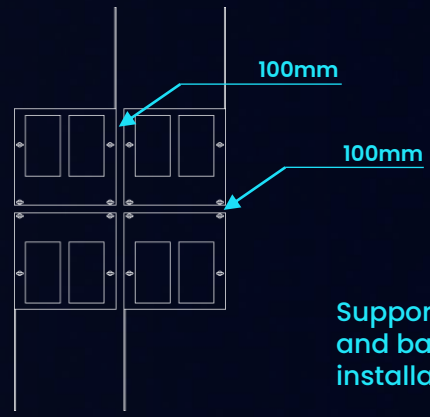


Forklift

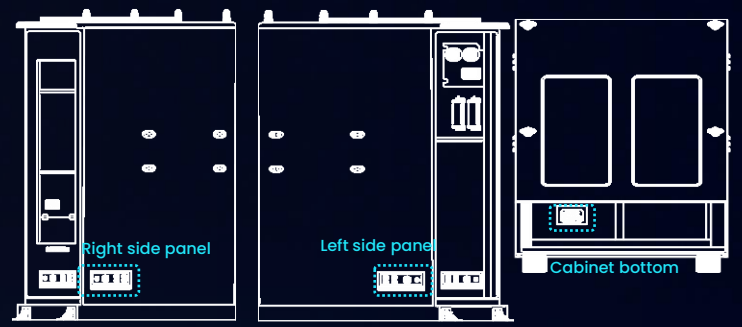


Hoisting

Multiple methods for transportation and installation



Supports side-by-side and back-to-back installation



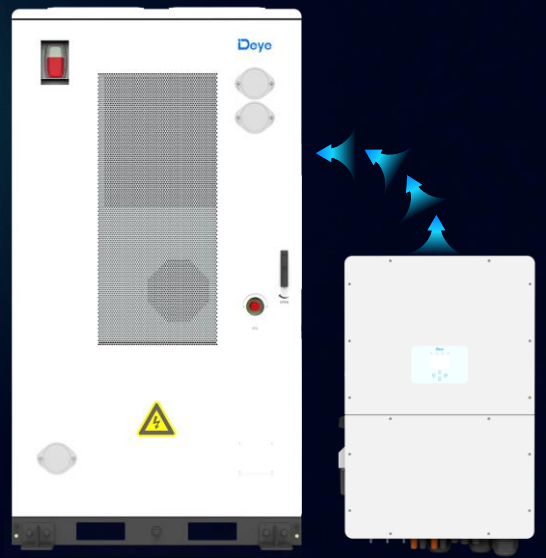
Flexible cable outlet options

Standard interfaces; no special tools required for wiring.

Three-side cabinet paralleling reduces floor space

Easy Installation & Maintenance

Hybrid Inverter Installation

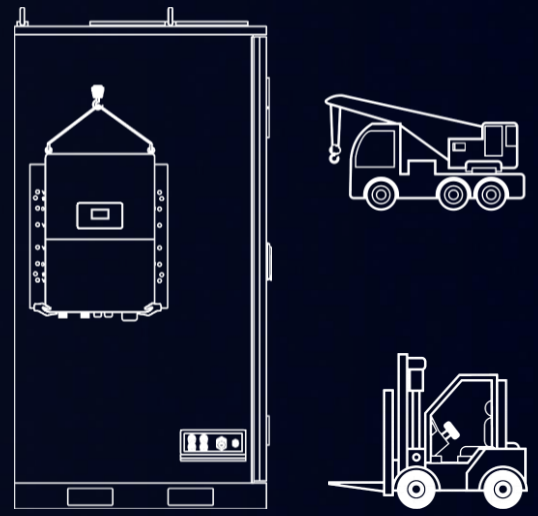


Energy Storage Battery Cabinet

Wall-Mounted Hybrid Inverter

According to site conditions and the weight of inverters with different power ratings, Deye offers three installation methods.

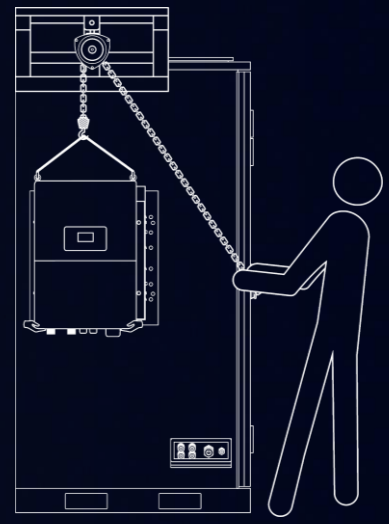
Weight of Hybrid Inverter:
1）30~50kW：≈80kg
2）60~80kW：≈105kg
3）100~125kW：≈150kg



Method 1: Hoisting of Large Equipment

Suitable for open sites with access conditionsfor large equipment.
Recommended for 100~125kW inverters.

Quick and standardized

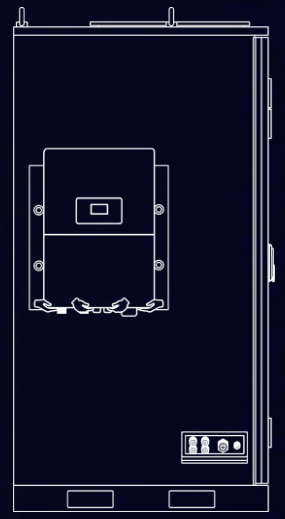


Method 2: Lifting Installation with Simple Tooling

Lift manually to the wall-mounted position by installing top lifting point tooling and hooking up a chain hoist.

Suitable for sites with space constraints, cost control and other limiting factors.
Recommended for 60~125kW inverters.

Low cost and flexible



Method 3: Manual Lifting Installation

Recommended for 30~50kW inverters

Low cost

Designed specifically for

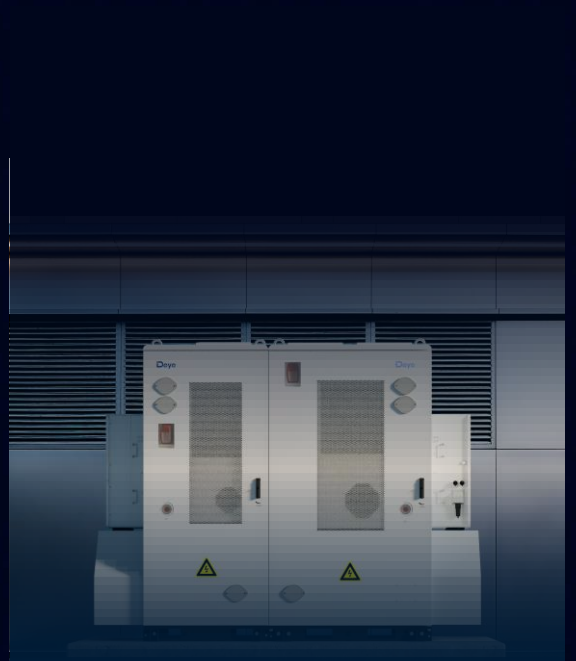
small-scale C&I, farms, islands, and other microgrid scenarios.



Factory

PV-BESS | PV-BESS-DG | BESS

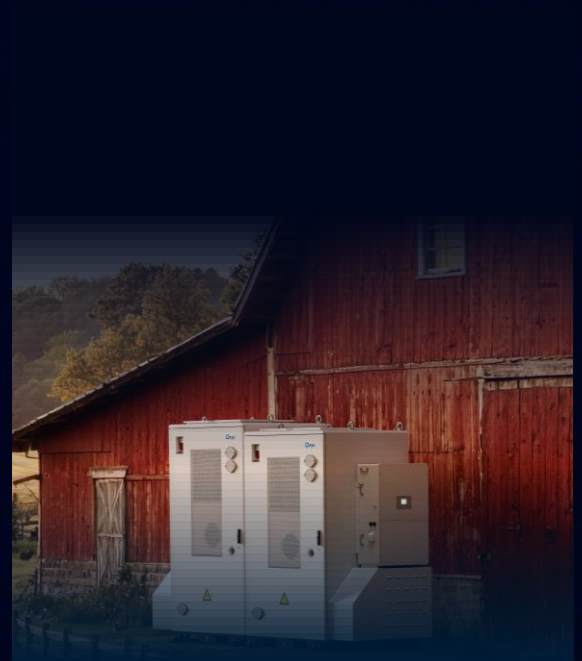
- TOU, Peak shaving and valley filling
- Solar self-consumption, zero-carbon
- Emergency backup power



Mall

PV-BESS | PV-BESS-DG | BESS

- TOU, Peak shaving and valley filling
- Solar self-consumption, zero-carbon
- Emergency backup power
- VPP



Farm

PV-BESS | PV-BESS-DG

- Solar self-consumption, Reduce electricity costs
- Emergency backup power



Islands (Off-grid areas)

PV-BESS | PV-BESS-DG

- Off-grid backup power

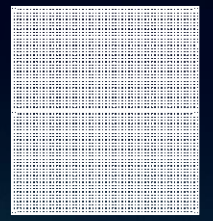
Ordering Guide

GE-F128 Series

Battery Cabinet Model & SKU	Accessory Package Model & SKU	Accessory Package Selection and Component Instructions	Note
Model：GE-F128-BC-2-A3 **SKU**：10101001000071 **Model**：GE-F112-BC-2-A3 **SKU**：10101001000097	**Model**：GE-128-AP-A **SKU**：10100606000028	**Matching Inverter**: SUN-60K-SG02HP3-EU-EM6 (80A*2) ——2h ESS SUN-40K-SG02HP3-EU-BM4 (100A*1) ——3h ESS SUN-30K-SG02HP3-EU-BM3 (100A*1) ——4h ESS **Main Accessories**: 1) UL10269_3AWG_3000mm_Red + Black _ Power Cables * 2 Sets 2) 26AWG_3000mm_Black_Communication Cable * 1 Set 3) 250A_Orange + Black _ Power Connector Plugs * 1 Set 4) Cable Protector * 1 Set 5) Inverter Extension Bracket * 2pcs（For 30，40，50k） 6) Cabinet mounting feet * 4pcs 7) Insect screen * 2pcs	**Accessory package varies by inverter model** Inverter Extension Bracket  Cabinet mounting feet  Insect screen 
	Model：GE-128-AP-B **SKU**：10100606000038	**Matching Inverter**: SUN-50K-SG02HP3-EU-BM4-P (160A*1) ——2h ESS **Main Accessories**: 1) UL10269_1AWG_3000mm_Red + Black _ Power Cables * 1 Set 2) 26AWG_3000mm_Black_Communication Cable * 1 Set 3) 250A_Orange + Black _ Power Connector Plugs * 1 Set 4) Cable Protector * 1 Set 5) Inverter Extension Bracket * 2pcs（For 50k） 6) Cabinet mounting feet * 4pcs 7) Insect screen*2pcs	

Ordering Guide

GE-F240/256 Series

Battery Cabinet Model & SKU	Accessory Package Model & SKU	Accessory Package Selection and Component Instructions	Note
Model: GE-F256-BC-2-A3 **SKU:** 10101001000079 **Model:** GE-F241-BC-2-A3 **SKU:** 10101001000070 **Model:** GE-F208-BC-2-A3 **SKU:** 10101001000094 **Model:** GE-F176-BC-2-A3 **SKU:** 10101001000093	**Model:** GE-F256-AP-A **SKU:** 10100606000030	**Matching Inverter:** SUN-100/125K-SG02HP3-EU-GM10 (100A*2) ——2h ESS SUN-60/70/80K-SG02HP3-EU-EM6 (80A*2) ——2~4h ESS SUN-50K-SG02HP3-EU-BM4 (100A*1) ——4h ESS **Main Accessories:** 1) UL10269_3AWG_3000mm_Red + Black _ Power Cables * 2 Sets 2) 26AWG_3000mm_Black_Communication Cable * 1 Set 3) 250A_Orange + Black _ Power Connector Plugs * 1 Set 4) Cable Protector * 1 Set 5) Inverter Extension Bracket * 2pcs (For 50k, 100/125k) 6) MSD *1pcs 7) Cabinet mounting feet * 4pcs 8) Insect screen * 2pcs	**Accessory package varies by inverter model** Inverter Extension Bracket  Cabinet mounting feet  Insect screen 
Model: GE-F256-BC-2-A3 **SKU:** 10101001000079	**Model:** GE-F256-AP-C **SKU:** 10100606000037	**Matching PCS:** SUN-125K-PCS01HP3 (200A*1) ——2h ESS **Main Accessories:** 1) UL10269_1AWG_3000mm_Red + Black _ Power Cables * 1 Set 2) 26AWG_3000mm_Black_Communication Cable * 1 Set 3) 250A_Orange + Black _ Power Connector Plugs * 1 Set 4) MSD*1pcs 5) Cabinet mounting feet * 4pcs 6) Insect screen * 2pcs	

Product Development & Certification Progress

Energy Storage Battery Cabinet

Model	Development Stages	UN38.3 /MSDS	CB	IEC				UL	REACH/ ROHS
			IEC62619	EMC	LVD IEC62477	IP IEC60529	IEC62933-5-2	UL9540A	
GE-F256-BC-2-A3	PVT	✔	✔	✔	June 2026	✔	June 2026	✔	July 2026
GE-F240-BC-2-A3 GE-F208-BC-2-A3 GE-F176-BC-2-A3	MP	✔							
GE-F128-BC-2-A3 GE-F112-BC-2-A3	PVT	✔	June 2026	June 2026	July 2026	June 2026	TBD	TBD	July 2026

Ocean Container Loading Plan

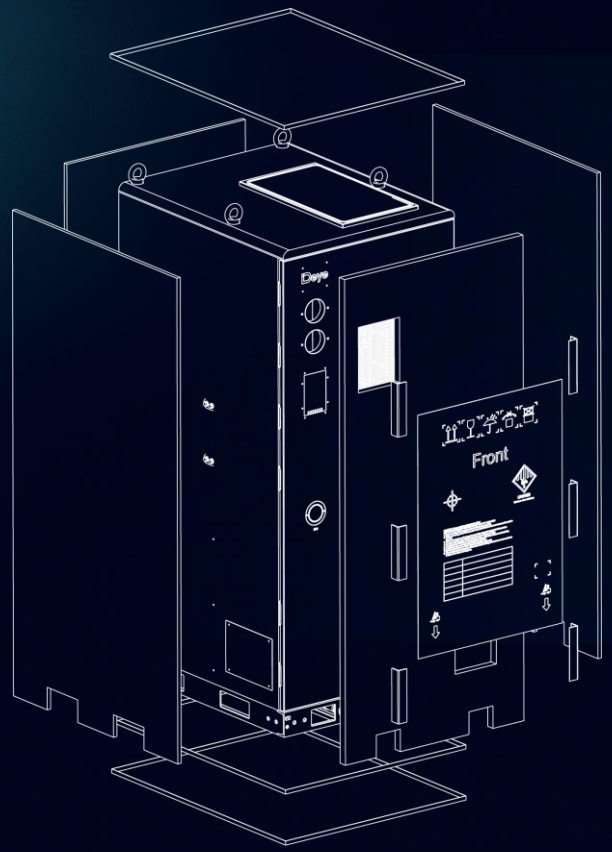
Energy Storage Battery Cabinet

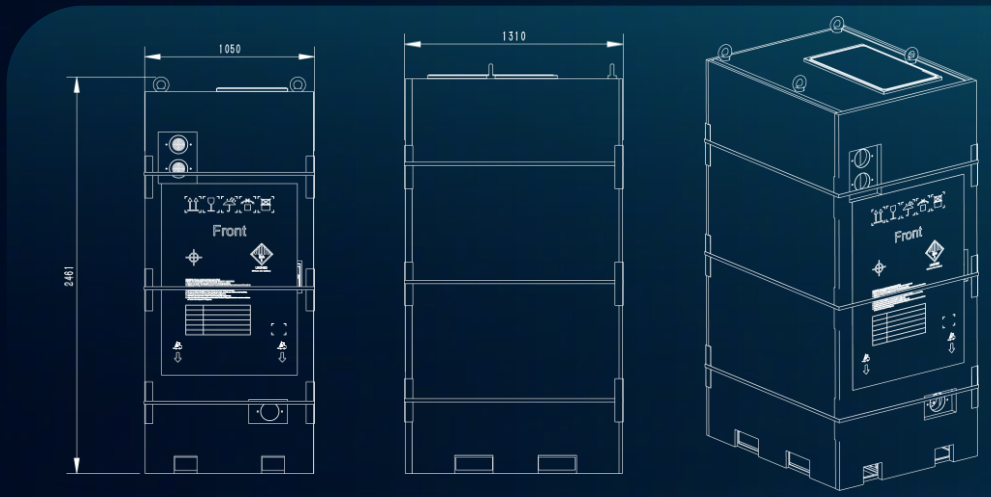
Model	Packaging Dimensions, mm	Full Pallet Dimensions, mm	Quantity per Pallet, pcs	Net Weight kg	Gross Weight kg	Quantity per Container(40HQ)
Battery Cabinet: GE-F256-BC-2-A3	1310*1353*2514 (Without Lifting Eye)	/	/	2770	2790	Battery Cabinet: 9 Accessory Package: 9
Accessory Package: GE-F256-AP-A/C	985*915*345	1050+950*1170	3	/	54	
Battery Cabinet: GE-F240-BC-2-A3	1340*1300*2470 (With Lifting Eye)	/	/	2683	2690	Battery Cabinet: 9 Accessory Package: 9
Accessory Package: GE-F256-AP-A	985*915*345	1050+950*1170	3	/	54	
Battery Cabinet: GE-F128-BC-2-A3	1040*1300*2470 (With Lifting Eye)	/	/	1720	1730	Battery Cabinet: 15 Accessory Package: 15
Accessory Package: GE-F128-AP-A/B	985*915*345	1050+950*1170	3	/	48	

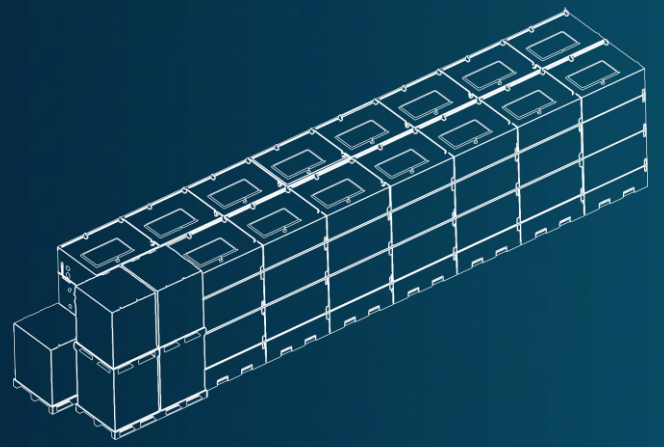
Ocean Container Loading Plan

Energy Storage Battery Cabinet

GE-F128-BC-2-A3







Packaging Dimensions: 1310*1050*2460 mm
Gross Weight: 1730kg

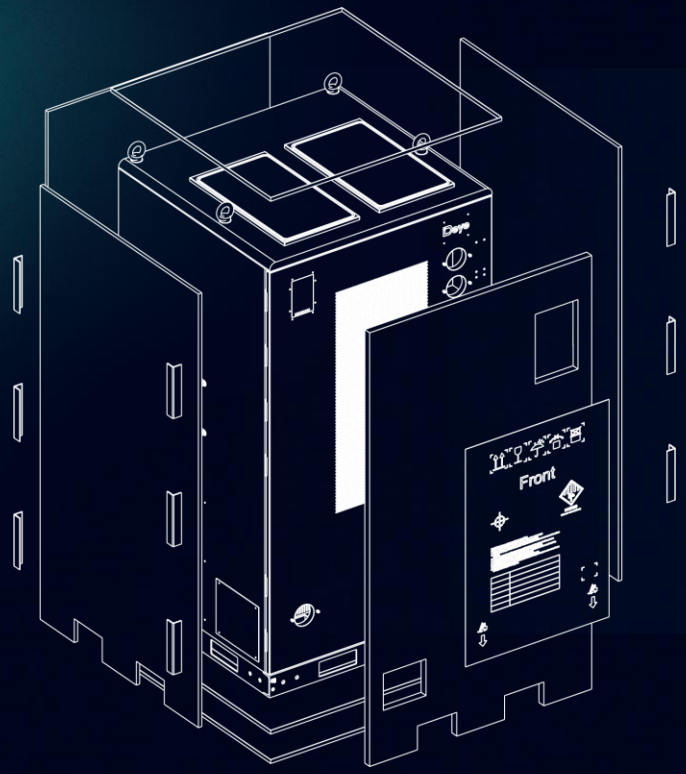
Cabinet + Accessory Pack Shipped in 1:1
15 Cabinet Units + 5 Pallets of Accessory Packs (15 Sets Total)

Gross Weight: ≈ 26505kg

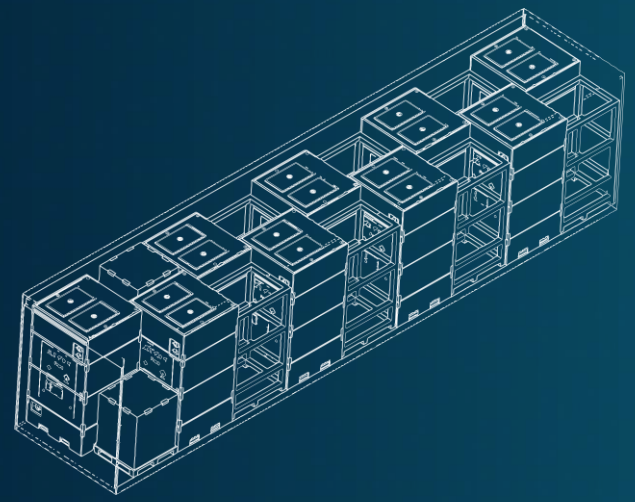
Ocean Container Loading Plan

Energy Storage Battery Cabinet

GE-F240/F256







GE-F240-BC-2-A3

Packaging Dimensions: 1340*1300*2470 mm
Gross Weight: 2690kg

GE-F256-BC-2-A3

Packaging Dimensions: 1310*1353*2514 mm (Without Lifting Eye)
Gross Weight: 2790kg

Cabinet + Accessory Pack Shipped in 1:1
9 Cabinet Units + 3 Pallets of Accessory Packs (9 Sets Total)

F240: Gross Weight: ≈ 24700kg
F256: Gross Weight: ≈ 25600kg

Product Evolution Comparison

C&I ESS Solution

Deye

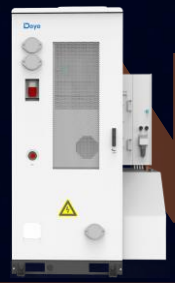
Deye 30~60kW Hybrid Inverter
Compatible with all models (Old+New)

GE-F120-2/3/4H2

GE-F112-BC-2-A3
GE-F128-BC-2-A3

Old





New

Cost reduced by ≈25%
Battery system, unit price

Cycle Life ≥ 6000 cycles

Temperature difference ≤ 10℃





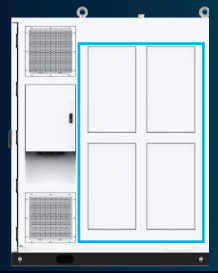
+33% (Cycle Life≥8000)

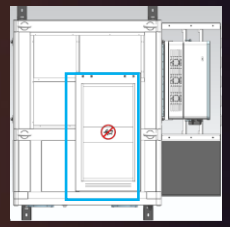
≤ 6℃ (Temperature difference)

-34% (Footprint)

+47% (Energy Density)

Rear Explosion Vent Panel





Top Explosion Vent Panel
Improved venting path, smaller vent area



Simplified structure enables back-to-back/side-by-side mounting, reducing footprint and installation complexity

- 314Ah high-capacity cells. Higher energy density, smaller size, lighter weight
- Preset inverter brackets on both sides for flexible installation



New safety architecture featuring 6-dimensional protection for enhanced safety

- Added active exhaust function, compliant with NFPA855/69 standards
- Top vent panel, no safety hazard from ejection
- 2h fire backup power for continuous safety system operation

Model	GE-F120-2/3/4H2	GE-F112-BC-2-A3	GE-F128-BC-2-A3
Capacity	100Ah	314Ah	
Energy	122.8kWh	112.4kWh	128.5kWh
Current	100A	180A	
Rate	0.5P/0.33P/0.25P	0.5P	
Dimensions	W1780*D1056*H2235 mm	W998*D1240*H2405.5mm Cable Protector W396.5mm	
Weight	2090kg	1575kg	1690kg
Operating Temp.	-20~55℃	-30~55℃	

Product Evolution Comparison

C&I ESS Solution

Deye 50~125kW Hybrid Inverter+PCS
Compatible with all models (Old+New)

Old

MS-GS215-2H3



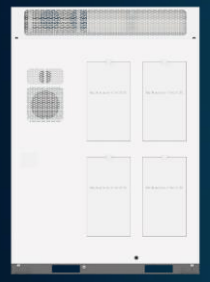
Integrated PCS & MPPT. Single configuration

Top-mounted air conditioner, difficult to maintain

Cycle Life ≥ 6000 cycles
Temperature difference ≤ 8℃



Rear Explosion Vent Panel



New

GE-F256-BC-2-A3
GE-F240-BC-2-A3
GE-F208-BC-2-A3
GE-F176-BC-2-A3



Cost reduced by ≈15%
Battery system, unit price



+33% (Cycle Life≥8000)

≤ 6℃ (Temperature difference)

-13% (Footprint)

+37% (Energy Density)



Top Explosion Vent Panel
Improved venting path, smaller vent area

Simplified structure enables back-to-back/side-by-side mounting, reducing footprint and installation complexity

- 314Ah high-capacity cells. Higher energy density, smaller size, lighter weight
- Preset inverter brackets on both sides for flexible installation
- Top-mounted vent panel. No rear space required

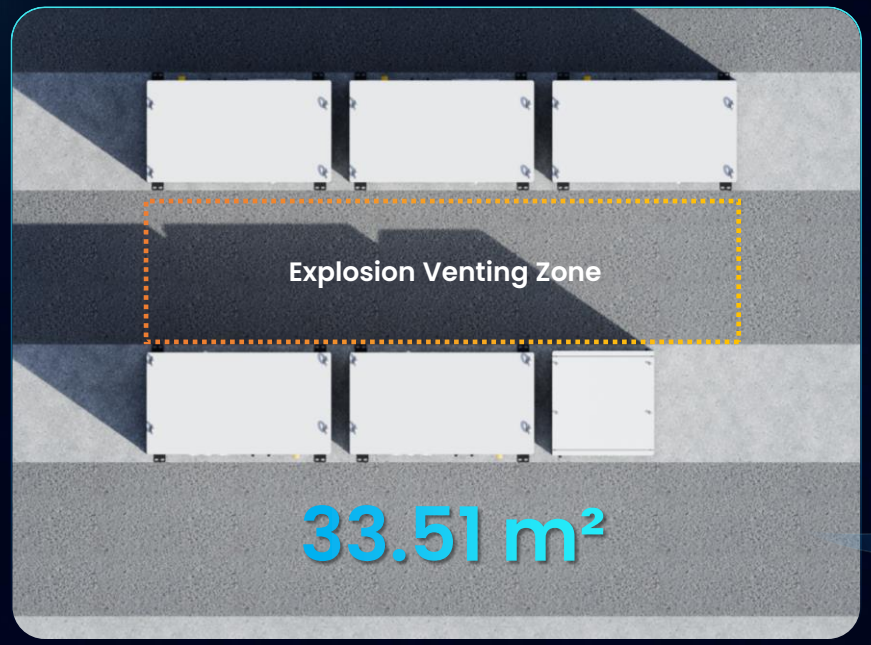


Model	MS-GS215-2H3	GE-F176/208/240-BC-2-A3	GE-F256-BC-2-A3
Capacity	280Ah	314Ah	
Energy	100kW/215kWh	176.7/208.9/241.0 kWh	257.1kWh
Current	130A	180A	
Rate	0.46P	0.5P	
Dimensions	W1865*D1000*H2500 mm	W1303*D1240*H2405.5/2510 mm Cable Protector W396.5mm	
Weight	2900kg	2150/2380/2610kg	2770kg
Operating Temp.	-20~55℃	-30~55℃	

Product Evolution Comparison

Space-Saving Design For Efficient Site Utilization

- Side-by-Side & Back-to-Back installation
- Top-mounted relief system

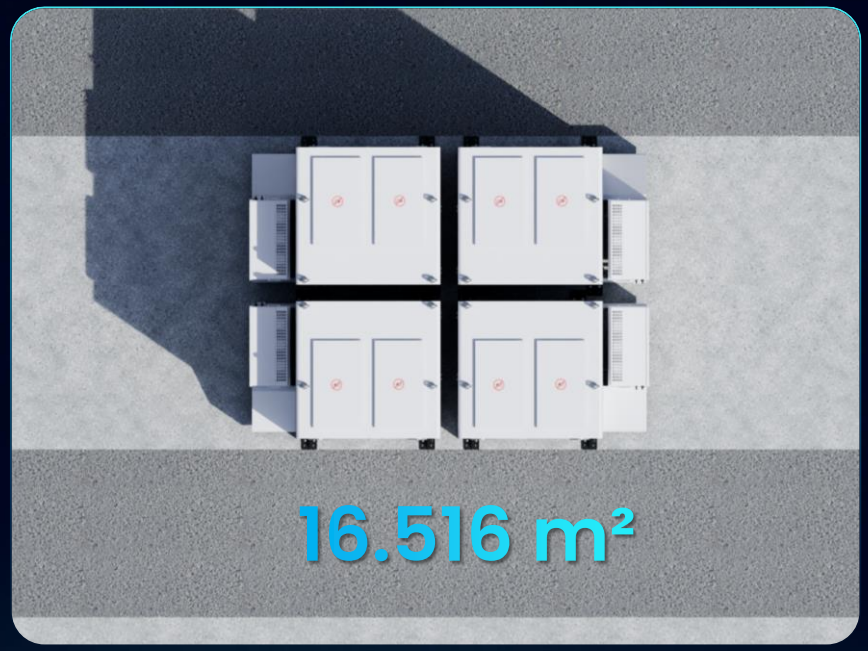


0.5MW/1MWh Solution
(MS-GS215-2H3*5 + TS500)

50.7%

↓

Footprint Reduced

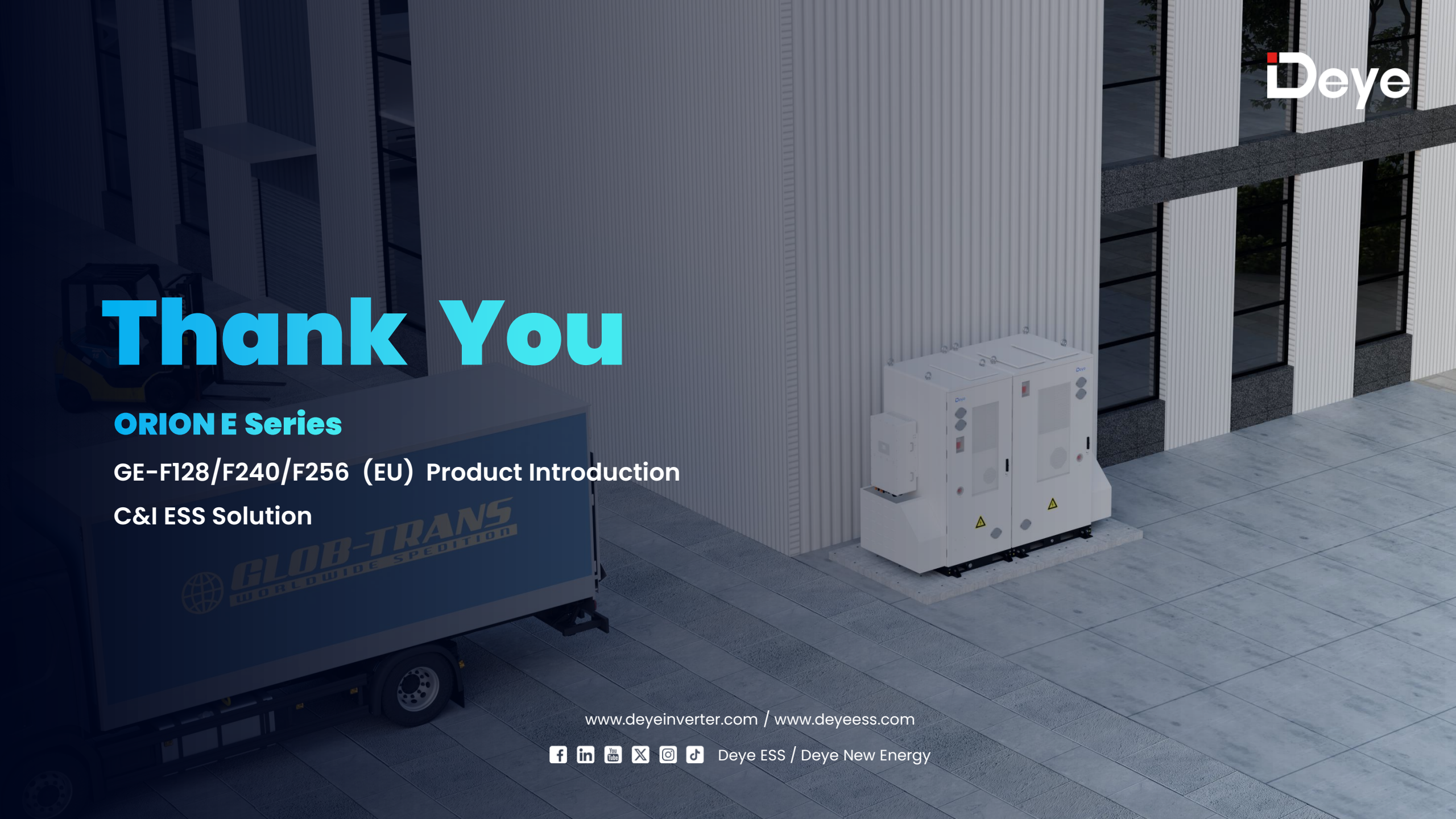


0.5MW/1MWh Solution
(GE-F256*4 + 125kW Hybrid Inverter*4)

Air-Cooling VS. Liquid-Cooling Systems

C&I ESS Product

	Air-cooling	Liquid-cooling
Recommended Applications	Flexible small C&I scenarios: ≤300kWh, low C-rate.	Large C&I & Utility-scale: >300kWh, high C-rate.
Features	• Simple system • Low manufacturing cost • Easy installation	• High integration • Efficient heat exchange • Long life with fewer rotating parts
Installation and Maintenance	1. The pack is compact and disassembles easily. 2. Only 1–1.5 meters of front clearance needed for installation. 3. Fans and air conditioners are easy to maintain and replace. Overall, the system is simple	1. The pack is heavy and long, needing special lifting equipment for assembly and disassembly. 2. 2.5 meters of front clearance is required for installation. 3. Regular fluid replenishment is needed, along with tools like an electric pump. Overall, it's relatively complex.
Thermal Performance	Energy consumption is 2–3 times higher than liquid cooling. Temperature difference is 5–10℃.	Base Temperature difference is 2–5℃
Reliability	Fan has rotating parts (prone to wear), but is highly maintainable	Higher cost; risks of leakage & low pressure; needs refilling; poor maintainability
Lifetime	10years	15years
Economy	Low first cost Moderate O&M costs	Moderate first cost High O&M costs



Thank You

ORION E Series

GE-F128/F240/F256（EU）Product Introduction

C&I ESS Solution

www.deyeinverter.com / www.deyeess.com

Deye ESS / Deye New Energy