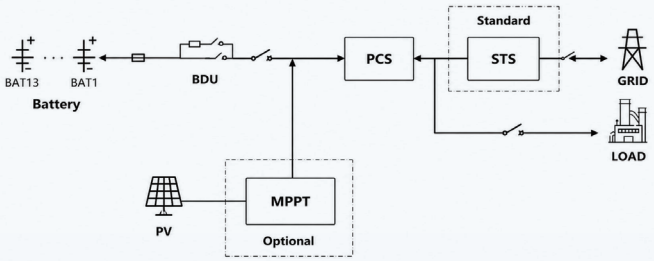
DH200F-C260

PV+ESS All-in-One Cabinet



Discover Your Nature

SPECIFICATION



Model	DH200F	DH200F-C260	
Battery			
Battery Type	LFP ($LiFePO_4$)	LFP ($LiFePO_4$)	
Battery Capacity	280Ah	314Ah	
PACK Configuration	1P16S*15	1P20S*13	
Rated Current	140A	157A	
Max. Current	160A	180A	
Voltage Range	696~864Vdc	754~936Vdc	
Nominal Capacity	215kWh	261kWh	
On-grid AC Side			
Rated power	100kW	124.9kW	125kW
AC Maximum Current	167A/167A	361A/200A	
AC Rated Voltage	400Vac	400Vac	
Wiring Method	3P4L+PE	3P4L+PE	
Frequency	50Hz/60Hz	50Hz/60Hz	
Power Factor	1(Leading)~1(Lagging)	≥0.99 (1 (Leading)~1 (Lagging)	
Unbalanced Load	/	100%	
THDi	≤3% (Rated power)	≤2% (Rated power)	
Off-grid AC Side (Optional)			
Rated Power	100kVA	124.9kW	125kW
AC Rated Voltage	400Vac	400Vac	
AC Maximum Current	167A	200A	
Wiring method	3P4L+PE	3P4L+PE	
Frequency	50Hz/60Hz	50Hz/60Hz	
Unbalanced Load	100%	100%	
THDv	＜3% (Liner load)	＜3% (Linear Load)	
Photovoltaic (Optional)			
Max. Input Power	50kW*3	63kW*4	
Max. Input Current	100A*3	160A*4	
Short-circuit Current	150A	240A*4	
Max. Voltage	670Vdc	720Vdc	
Input Voltage Range	200-670Vdc	200-720Vdc	
Start-up Voltage	250Vdc	250Vdc	
MPPT Path	3	4	
System			
Weight	2800±100kg	2900±100kg	
Dimension (W*D*H)	1845*1190*2250mm	2000*1346*2200mm	
Max. Efficiency	87%	88%	
Air Conditioner Power	3kW (Cooling), 1kW (Heating)	5kW (Cooling), 3kW (Heating)	
Operating Temperature	-20~50°C (Derating above 45°C)	-20~50°C (Derating above 45°C)	
Operating Humidity	0~95%RH (Non-condensing)	0~95%RH (Non-condensing)	
Ingress protection	IP55	IP55	
Anti-corrosion Grade	C3	C3	
Cooling method	Air cooling	Air cooling	
Noise	≤75dB	≤75dB (Add optional accessories ≤65dB)	
Elevation	3000m (Derating above 2000m)	3000m (Derating above 2000m)	
Display	Touch screen	Touch screen	
Fire Protection	Aerosol, Water fire system, Multi-sensor/water ingress detector, Audible&Visual alarm, Explosion-proof ventilation	Aerosol, Water fire system, Multi-sensor/water ingress detector, Audible&Visual alarm, Explosion-proof ventilation	
Communication	Ethernet/4G/RS485	Ethernet/4G/RS485/CAN	
Certification	CE, LVD, UN38.3	UN38.3, EN IEC 61000-6-2, EN IEC 61000-6-4, IEC 62619, IEC 63056, EN 62477-1, IEC 62933-5-2, UL 9540A, EN 50549-1/-2/-10 + deviation, C10/11, G99, G100, TOR, EIFS, TF3.3.1, UNE-217001/217002, NRS-097, VDE-AR-N4105/4110/4120, (EU) 2023/1542	

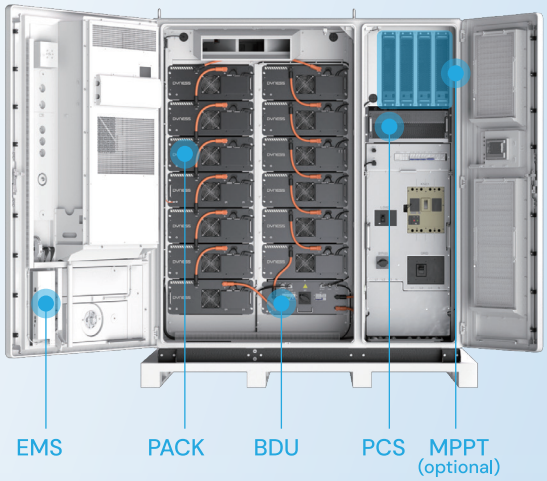
Integrated Solar & Storage, Leaping in Performance

Higher Energy Density

- 314Ah cells deliver higher capacity, improved efficiency, and lower energy loss during charging and discharging

Higher Power Design

- Supports up to 250 kW grid input, enabling simultaneous 125 kW AC load supply and 125 kW battery charging.
- Selectable 125 kVA / 124.9 kVA output for reliable off-grid and weak-grid power supply.



Optimization Grid-on/Off-Grid Switching

Comparison	DH200F	DH200F-C260
Switching Time	≤ 20ms	≤ 20ms
Energy Loss	0.5% - 2%	≈ 0W
Cooling Method	Forced Air Cooling (regular fan maintenance)	Natural cooling
Life Cycle Cost	Severe power waste in long-term operation	Low comprehensive cost, remarkable electricity savings
Grid Adaptability	Narrow voltage range weak impact resistance /low surge withstand capability	Wide Voltage Range (65%-135%) Achieve complete electrical isolation
Bypass	NO	YES

Lower Operating Noise

40dB	60dB	≤65dB	80dB	100dB
Quiet Office	Normal Conversatio	This System	Heavy Equipment	Construction Site

Enhanced PV configuration

Total System PV Power

150kW → 252kW

Total system power is increased by **68%**

Single PV Module Power

50kW → 63kW

Single module power increased by **26%**

Float-Charge upon Full Battery Charging

Shut Down

↓

Float-Charge

Higher Input Current

Compatible with high-power PV panels; supports more parallel panels; without full-load derating

Higher Input Voltage

Multiple panels in series networking reduces cable line loss.

Higher Short-circuit

Quick start at dawn and dusk, anti-shadow fluctuation, ample protection margin for faulty modules.

Higher Flexibility

Flexible power range configuration, high redundancy & fault tolerance.

More Economical

Minimize solar energy waste and increase PV utilization.

High Output Precision, Fast Response

Before

≤3%
Output Precision

500ms
Response Time

200% ENHANCE

Now

≤1%
Output Precision

300ms
Response Time

Grid Support

Support active/reactive power regulation and enhance auxiliary service revenue.

Peak Shaving & Frequency Regulation

High-precision output with millisec-ond-level response, precisely matching grid dispatch commands.

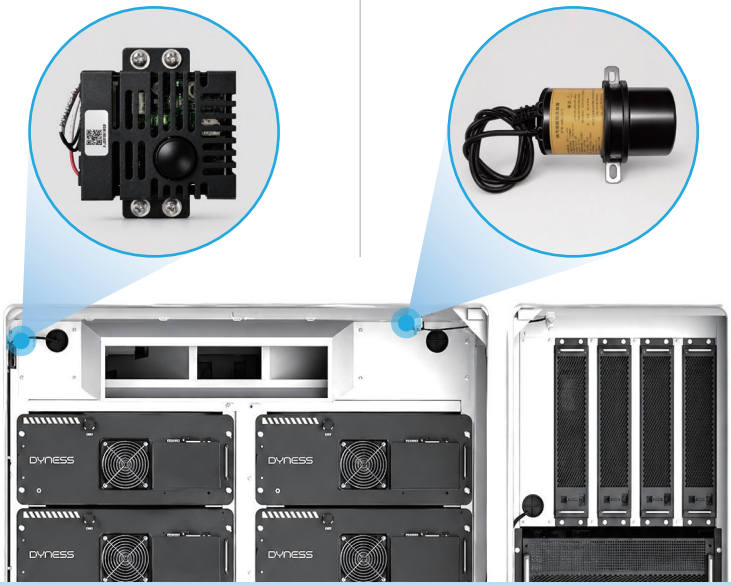
Precise Power Control

Support demand control & peak shaving energy saving & penalty avoidance.

Multi-layer Fire Protection for Comprehensive System Safety

Real-Time Monitoring & Early Warning

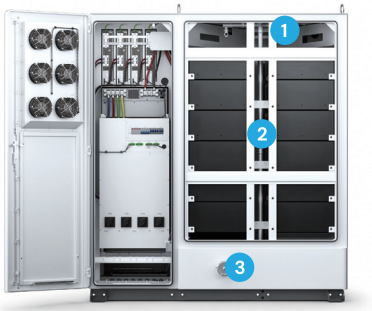
Detect in temperature, smoke, and CO, VOC



Rapid Fire Suppression

Releases aerosol rapidly to suppress fire at the source and prevent spread.

Effective Thermal Runaway Mitigation

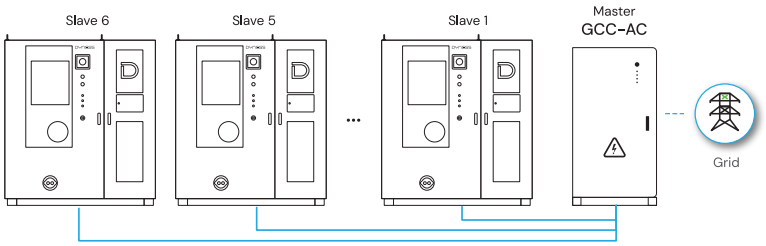


1. Fire sprinkler sprays the fire-extinguishing medium
2. The fire pipeline acts as dedicated medium delivery for energy storage cabinets.
3. The fire interface reserves external agent access for the energy storage cabinet.

Beyond Storage, Empower Business

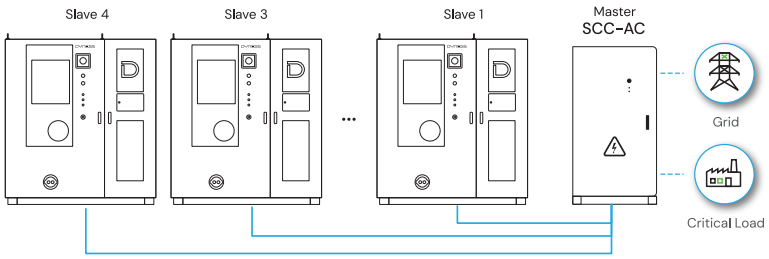
On-Grid System

- Maximum support for 10 cabinets in grid-connected AC parallel
- A single GCC-AC supports up to 6 units of DH200F-C260 for grid-connected parallel connection
- Supports 100% three-phase unbalanced output



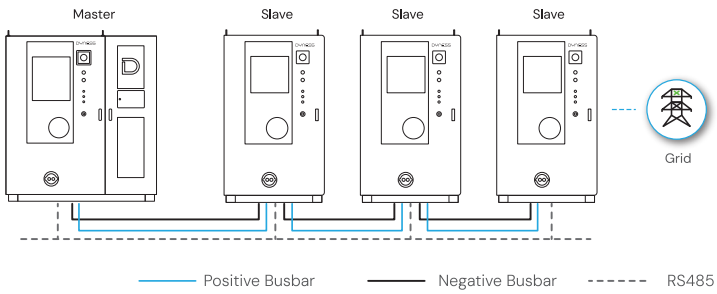
On-off-Grid System

- Up to 4 canbinets can be supported off-grid
- Requires integration of Dyness seamless switching cabinets (SCC-AC)
- Supports ≤20 ms on-grid/off-grid switching in both single-unit and parallel systems, ensuring stable operation of critical loads.
- Supports 100% three-phase unbalanced output



DC Expansion Solution

- A single DH200F-C260 supports up to 3 BF200-C260 DC battery cabinet in DC parallel
- Precisely adapt to full-time power backup scenarios of 2~8 hours
- Flexible expansion, lower initial investment



Ex: 2MWh C&I Energy Storage Project in Guangdong, China

Basis of Calculation

Operation Strategy	Charge/Discharge Cycles	Round-Trip Efficiency
Peak-Valley Arbitrage	1 cycle per day	88%
Depth of Discharge (DOD)	**Annual Operating Days**	**Project Unit Cost**
95%	330 days	0.12€/Wh
Peak Price	**Valley Price**	
0.16€/kWh	0.038€/kWh	

(Note: Based on the general time-of-use (TOU) electricity pricing in Guangdong)

Revenue Analysis

System Capacity	Total Investment
2 MWh	**235,271.4 €**
10-Year Gross Revenue	**Payback Period**
633,733.25 €	**3.4 years (static)**

Business Card

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