

DH200Y-C260

Liquid-cooled All-in-One Cabinet



Higher Energy Density, Superior Architecture

Higher Efficiency & Better Economics

- Compact 1.56m^2 footprint with $167\text{kWh}/\text{m}^2$ energy density, reducing land costs
- 314Ah cells deliver higher capacity, improved efficiency, and lower energy loss during charging and discharging

Triple-Door Design for Easier Maintenance

**Dual-door front design
+ reserved rear access door**

- Separate battery and electrical compartments for easier access
- Front and rear access to the electrical compartment for more flexible maintenance

Battery
Compartment

EMS

PACK

PCS

BDU

Electrical
Compartment



Intelligent Thermal Management

PACK Temperature Difference $\leq 3^{\circ}\text{C}$



Wide Operating Temperature Range

-25°C

Low Temperature
Operation

45°C

No derating
below

50°C

High Temperature
Operation



Enhanced
Battery Performance



Extended
System Lifetime



Safer
System Operation



Higher
Operating Efficiency

High Output Precision, Fast Response

Before

$\leq 3\%$

Output Precision

$\geq 500\text{ms}$

Response Time

200%
ENHANCE

Now

$\leq 1\%$

Output Precision

$\leq 300\text{ms}$

Response Time



Grid Support

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



Peak Shaving & Frequency Regulation

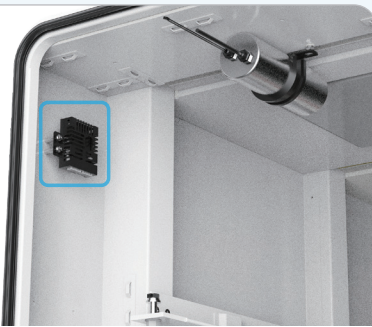
High-precision output with millisecond-level response, precisely matching grid dispatch commands.



Precise Power Control

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

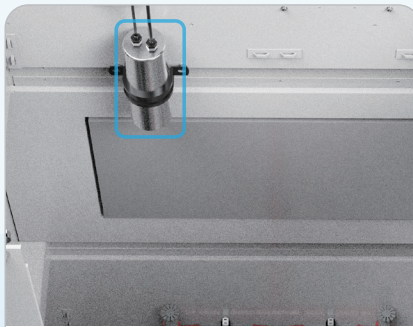
Multi-layer Fire Protection for Comprehensive System Safety



Real-Time Monitoring & Early Warning

Multi-Sensor Detection Technology

Real-time monitoring of smoke, temperature, and other fire-related signals to achieve ultra-early warning and millisecond-level rapid response.



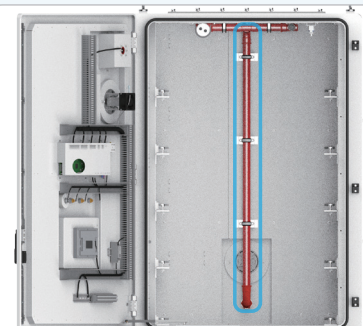
Rapid Fire Suppression

System-level Aerosol

Rapid aerosol release to suppress fire at the source and prevent spread.

PACK-level Aerosol

Precise suppression within a single PACK without affecting other PACK units.



Effective Thermal Runaway Mitigation

Water Fire Suppression

When fire spreads or persists after aerosol suppression, the external water spray system continuously cools the affected compartment to prevent thermal runaway propagation.



All-Climate
Adaptability

IP67
PACK

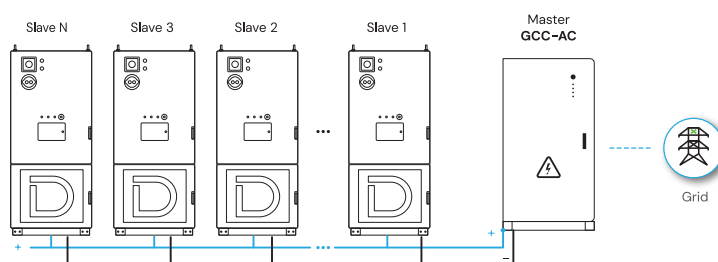
IP66
PCS

C3/C5
anti-corrosion
optional

Beyond Storage, Empower Business

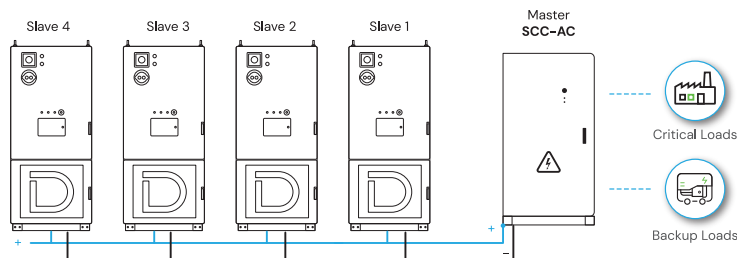
On-Grid System

- 20-unit AC parallel, up to **5.2MWh**
- GCC-AC supports up to **6** units for centralized grid connection
- Supports 100% three-phase unbalanced output



On-off-Grid System

- Up to **4** units can operate in parallel
- Requires integration of Dyness seamless switching cabinets (SCC-AC)
- Seamless on/off-grid switching **≤20 ms**, ensuring stable operation of critical loads.



Reference for Revenue Calculation

Ex: 2MWh C&I Energy Storage Project in Italy

Basis of Calculation



Operation Strategy	Depth of Discharge	Round-Trip Efficiency
Peak-Valley Arbitrage	100%	90%
Charge/Discharge Cycles	Annual Operating Days	Project Unit Cost
1 cycle per day	330 days	0.22 €/Wh
Peak Price	Valley Price	
0.38 €/kWh	0.15 €/kWh	

(Note: Based on the prevailing market electricity prices in Italy)

Revenue Analysis



IRR: **24.3%**

System Capacity	Total Investment
2MWh	440,000 €
10-Year Gross Revenue	Payback Period (Static)
1,222,200 €	3.4 years

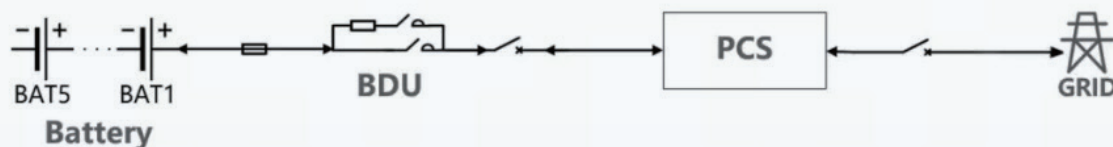


Location	Hungary
Capacity	500kW/1160kWh
Application	Dynamic expansion (peak shaving) + PV consumption (self-generation and self-use)

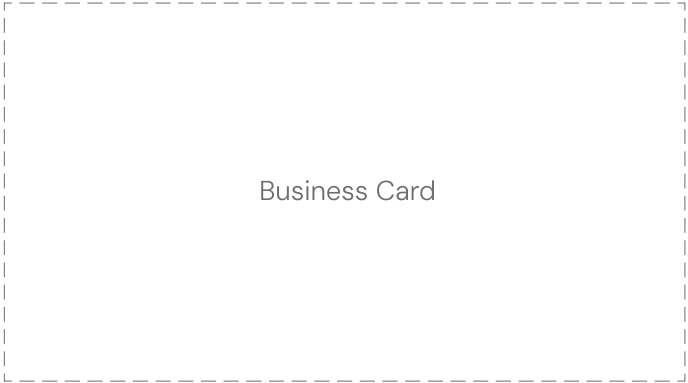


Location	China
Capacity	1MW / 2.32MWh
Application	Scheduled charge/discharge + Peak-valley arbitrage

SPECIFICATION



Model	DH200Y	DH200Y-C260	
Battery			
Battery Type	LFP (LiFePO ₄)	LFP (LiFePO ₄)	
Battery Capacity	280Ah	314Ah	
PACK Configuration	1P52S*5	1P52S*5	
Rated Current	140A	157A	
Max. Current	160A	180A	
Voltage Range	754~936Vdc	754~936Vdc	
Nominal Capacity	232kWh	261kWh	
On-grid AC Side			
Rated Power	100kW	124.9kW	125kW
AC Maximum Current	145A	180A	
AC Rated Voltage	400Vac	400Vac	
Wiring Method	3P4L+PE	3P4L+PE	
Frequency	50Hz	50Hz/60Hz	
Power Factor	1(Leading)~1(Lagging)	1(Leading)~1(Lagging)	
Unbalanced Load	/	100%	
THDi	≤3% (Rated power)	≤3% (Rated power)	
Max. Number Of Parallel Expansions	10	20	
System			
Weight	2600±100kg	2800±100kg	
Dimension (W*D*H)	1055*1475*2400mm	1055*1475*2400mm	
Max. Efficiency	90%	90%	
Liquid-cooling Power	2.5kW (Cooling), 2kW (Heating)	5kW (Cooling), 2kW (Heating)	
Operating Temperature	-20~50°C (Derating above 45°C)	-25~50°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(Optional C5)	C3(Optional C5)	
Cooling Method	PACK Liquid-cooling + PCS Air-cooling	PACK Liquid-cooling + PCS Air-cooling	
Noise	≤75dB	≤70dB	
Elevation	3000m (Derating above 2000m)	3000m (Derating above 2000m)	
Display	Touch screen	Touch screen	
Fire Protection	Aerosol, Multi-sensor/water ingress detector, Explosion-proof ventilation	Aerosol,Multi-sensor Detector,Coolant Leak Detector,Explosion-proof Ventilation,Audible&Visual Alarm,Water Fire System	
Communication	Ethernet/4G/RS485	4G/Ethernet/RS485	
Certification	CQC, CE, TUV, LVD, UN38.3	UN38.3, IEC 62619, IEC 63056, IEC 62477-1, IEC 62933-5-2, EN IEC 61000-6-2/-4, UL 9540A (In Progress), C10/I1, VDE-AR-N4105/4110/4120, EN 50549-1/-2/-10 + deviation, G99, CEI 0-16/CEI 0-21 (In Progress), (EU) 2023/1542	



Business Card



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