

DHN-HVRES Series

High-Voltage Energy Storage System

Modular design, DHN-HVRES supports flexible multi-string expansion, suitable for multi-scenarios. Built on high-safety LFP battery cells, long cycle lifetime, high power density, and compact form. The intelligent BMS (Battery Management System) ensures stable operation of the whole system.



Flexibility

- Plug-and-play embedded design for rapid deployment (5-minute setup).
- 5-17 battery packs freely connected in series, with a voltage range of 256-870V.
- Modular design for easier maintenance and replacement.



Safety

- Grade-A lithium iron phosphate (LFP) cells for superior safety.
- Fire Protection System: Optional pre-setting fire extinguisher.
- 5-layer BMS protection (overcharge/over-discharge/overcurrent/high-low temperature/short circuit).



Efficiency

- Ultra-low self-discharge rate, maintaining over 90% capacity after 6 months of storage without recharge
- No memory effect, excellent performance under partial charge/discharge.
- 8,000+ cycles (at 70% SOH).



Intelligence

- $\pm 1\%$ SOC auto-calibration for precise energy monitoring.
- Automatic charge/discharge management with current/voltage balancing.
- OTA remote upgrades supported for firmware optimization.

Technical Data

Model

DHN-HVRES-G1

Main Parameter

Single Battery Model

DHN-HVRES16-G1

Battery Type

LiFePO4

Nominal Energy(kWh)

16.08

Nominal Voltage(V)

51.2

Nominal Capacity(Ah)

314

Dimension (W/H/D,mm)

488*230*790

System Model

DHN-HVR16×7-G1

DHN-HVR16×12-G1

DHN-HVR16×15-G1

DHN-HVR16×17-G1

Battery Module Qty In Series (Optional)

7

12

15

17(Max)

System Nominal Energy (kWh)

112.56

192.96

241.2

273.36

System Nominal Voltage(V)

358.4

614.4

768

870.4

System Operating Voltage(V)

302.4~408.8

518.4~700.8

648~876

734.4~992.8

Charge/Discharge Current(A)–Recommend

157

Charge/Discharge Current(A)–Max

180

Dimension System(W/H/D,mm)

544×2150×816

1088×1910×816

1088×2150×816

1088×2340×816

System Weight (kg)

910

1545

1900

2163

IP Rating of Enclosure

IP20

Operating Temperature(°C)

Charge:0~+50/Discharge:-20~+55

StorageTemperature(°C)

0~+35

Recommend Depth of Discharge(%)

≤90

Cycle Life(25±2°C,0.5C/0.5C,70%EOL)

≥8000

Communication Methods

CAN2.0/RS485

Warranty Period(years)

5/10

Certification

CE-IEC61000; CB-IEC62619; UN38.3

Technical Data



Model	DHPDU01SC10A1403P721
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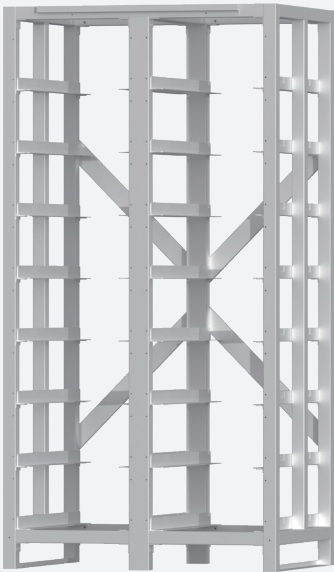
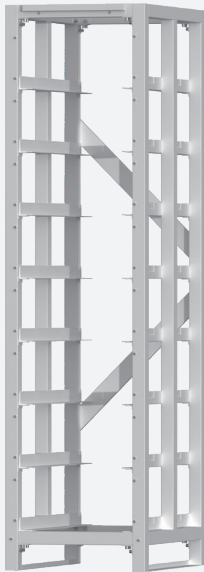
Main Parameter

Operating Voltage (Vdc)	250~1000
Nominal Charge/Discharge Current (A)	157
Max.Charge/Discharge Current (A)	180
Operating Temperature Range (°C)	-20~55
IP Rating of Enclosure	IP20
Dimension (W/H/D,mm)	488*230*510
Weight (kg)	23.6

Technical Data

Model	DHN-RACK16-8 (Can install 7pcs batteries and 1pcs High Voltage Battery cluster control box) DHN-RACK16-8*2 (Can install 15pcs batteries and 1pcs High Voltage Battery cluster control box)
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Dimension(W/H/D,mm) Weight(kg)	544*2150*816mm 97kg	1088*2150*816mm 181kg
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