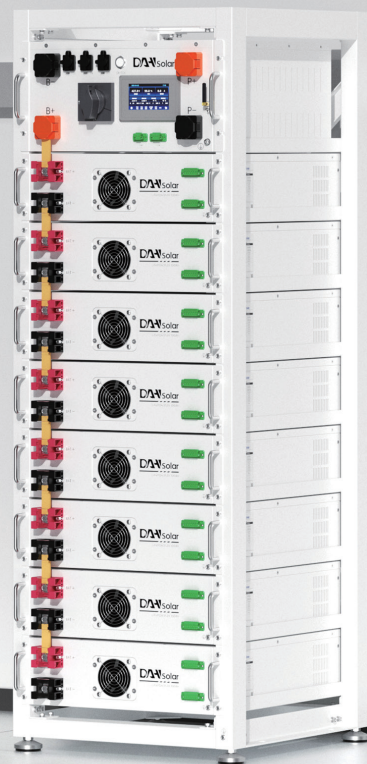


DHN-HVRES Series

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.
- 6,000+ 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-HVRES05-G1

Battery Type

LiFePO4

Nominal Energy(kWh)

5.12

Nominal Voltage(V)

51.2

Nominal Capacity(Ah)

100

Dimension (W/H/D,mm)

482.6*140*550

System Model

DHN-HVR05×5-G1

DHN-HVR05×8-G1

DHN-HVR05×12-G1

Battery Module Qty In Series (Optional)

5

8

12

System Nominal Energy (kWh)

25.6

40.96

61.44

System Nominal Voltage(V)

256

409.6

614.4

System Operating Voltage(V)

216~292

345.6~467.2

518.4~700.8

Charge/Discharge Current(A)–Recommend

50

Charge/Discharge Current(A)–Max

100

Dimension System(W/H/D,mm)

528×1108×602

528×1543×602

528×2123×602

System Weight (kg)

296

455

650

IP Rating of Enclosure

IP20

Operating Temperature(°C)

Charge:0~+60/Discharge:-20~+60

StorageTemperature(°C)

0~+35

Recommend Depth of Discharge(%)

≤90

Cycle Life(25±2°C,0.5C/0.5C,70%EOL)

≥6000

Communication Methods

CAN2.0/RS485

Warranty Period(years)

5

Certification

UN38.3

Technical Data



Model

DHPDU01SC10A1403P721

Main Parameter

Operating Voltage (Vdc)

250~1000

Nominal Charge/Discharge Current (A)

50

Max.Charge/Discharge Current (A)

100

Operating Temperature Range (°C)

-20~55

IP Rating of Enclosure

IP20

Dimension (W/H/D,mm)

488x230x510

Weight (kg)

23.6

Technical Data

Model

DHN-RACK05-9 (Can install 8pcs batteries and 1pcs High Voltage Battery cluster control box)
DHN-RACK05-13 (Can install 12pcs batteries and 1pcs High Voltage Battery cluster control box)

Dimension(WxHxD,mm)
Weight(kg)

528x1543x602mm
60kg



528x2123x602mm
74kg





DAH Solar Co., Ltd.

Add: No.1 Yaoyuan Road, Luyang District, Hefei City, Anhui, China

E-mail: info@dahsolar.com

en.dahsolar.com