聚恆科技股份有限公司
HENGS TECHNOLOGY CO.,LTD.

Energy Storage Cabinet | Liquid Cooling · Modulization · LFP

HHR Series Products Certified for Taiwan CNS 62619 VPC
Suitable for both behind-the-meter and front-of-the-meter energy storage applications.

Safety Assurance

- Complies with NFPA 855 certification, ensuring comprehensive safety measures, and equipped with an aerosol fire suppression system.
- Modules have an IP 67 protection rating, and the rack has an IP 55 protection rating.
- System-level insulation withstand voltage testing.

High Efficiency

- Equipped with an advanced liquid cooling system, providing excellent cooling performance.
- Precisely controls temperature, with a cell temperature difference of less than 3°C.

Compact and Flexible

- Integrated design for easy installation and transportation.
- Flexible configuration and enabling system expansion.
- Side-by-side horizontal installation, saving installation space.

VPC

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Specification

HHR-258	
Battery	
Battery Type	LiFePO4 (LFP)
Nominal Voltage	3.2 V
Nominal Capacity	280 Ah (0.5 C、25°C)
Nominal Energy	896 Wh (0.5 C、25°C)
Cycle Life	≥ 10,000 cycles (0.5 C、25°C)
Module (Pack)	
Configuration	1P48S
Nominal Voltage	153.6 V
Nominal Capacity	280 Ah (0.5 C、25°C)
Nominal Energy	43.008 kWh (0.5 C、25°C)
IP Rating	IP 67
Rack	
Main Model	SL00258U001L
Configuration	1P288S (6 Modules)
Nominal Voltage	921.6 V
Nominal Capacity	280 Ah (0.5 C、25°C)
Nominal Energy	258.048 kWh (0.5 C、25°C)
Operating Voltage	720 V ~ 1051.2 V (T > 0°C) 576 V ~ 1051.2 V (T ≤ 0°C)
Maximum Charge / Discharge Rate	1 C / 1 C
Round Trip Efficiency	≥ 94 %
BMS Communication	CAN
Cooling Method	Liquid Cooling
IP Rating	IP 55
Operating Temperature	Charge： 0°C~ 60°C Discharge：-30°C~ 60°C
Storage Temperature	-20°C ~ 35°C (recommended)
Application Altitude	≤ 3,000 m
Dimensions (L × W × H)	1,300 × 1,300 × 2,350 mm
Total Weight	≤ 2,900 kg
Compliance Standards	
CNS 62619、IEC 62619、IEC 62477-1、IEC 61000、IEC 60730-1、UL 9540A、UL 1973、UN 38.3、NFPA 855	
Environmental Compliance	
RoHS、REACH	

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Master Combiner

HHC integrates with HHR power, providing auxiliary power supply, communication, and fire alarm control functions.

Specification

HHC			
Electrical Specification			
Connection to the number of HHR		1	2~10
Nominal Current		140 A	140*N[1] A
Nominal Voltage		921.6 V (HHR-258) 1228.8 V (HHR-344)	921.6 V (HHR-258) 1228.8 V (HHR-344)
AC Input Specifications		Three-phase four-wire 380 / 220 V	
Operating Temperature		-20°C ~ 55°C	
Communication Specification			
BMS		Tier-3 BMS : SBMU[2]	
Communication Equipment	**Internally**	UPS, Fire Alarm Control Panel, Fire Alarm Signal, Fire Fault Signal, I/O Module, Meter, Indicator Light, Aerosol Signal, Emergency Stop Alarm, Disconnector Closing Relay	
	Externally	CBMU、EMU、PCS	
Communication Interface		CAN、RS 485、Ethernet	
Communication Protocol		CAN、Modbus RTU、TCP / IP、IEC 61850 (optional)	
Mechanism Specification			
Dimensions (L × W × H)		800 × 600 × 2,350 mm	1,300 × 854 × 2,350 mm
Total Weight		≤ 480 kg	≤ 900 kg

[1] N Indicates the number of HHR energy storage cabinets, N=2,3,4,5,6,7,8,9,10
[2] Tier-1 BMS located at HHR (Pack) as MBMU, Tier-2 BMS located at HHR (Rack) as CBMU