



## Energy Storage Cabinet | Liquid Cooling · Modulization · LFP

HHR Series Products Certified for Taiwan CNS 62619 VCP  
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.



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# Specification

## HHR-344

### 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	SL00344U001L
Configuration	1P384S (8 Modules)
Nominal Voltage	1228.8 V
Nominal Capacity	280 Ah (0.5 C、25°C)
Nominal Energy	344.064 kWh (0.5 C、25°C)
Operating Voltage	960 V ~ 1401.6 V (T > 0°C) 768 V ~ 1401.6 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	≤ 3,500 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



## 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 <sup>1</sup> 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 <sup>2</sup>	
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, Disconnecting 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

<sup>1</sup> N Indicates the number of HHR energy storage cabinets, N=2,3,4,5,6,7,8,9,10

<sup>2</sup> Tier-1 BMS located at HHR (Pack) as MBMU, Tier-2 BMS located at HHR (Rack) as CBMU

