

# HR5120 Series HV C&I Energy Storage Battery

**Convenient:** integrated with standard 19" rack, make the installation and maintenance quick and easy.

**Safe and Reliable:** low self-discharge rate, up to half year shelf life, LFP material ensure the safety and long cycle life.

**Intelligent BMS:** it has protection functions including over-discharge, over-charge, over-current and over-high or low temperature. The system can automatically manage charge and discharge state and balance current and voltage of each cell.

**Eco-friendly:** the whole module is non-toxic, non-polluting and environmentally friendly.

**Flexible Configuration:** batteries can be parallel or series connected to increase the capacity and power.

**Wide Temperature:** working temperature range is from  $-20 \sim 55^{\circ}$ C, with excellent discharge performance and cycle life.

Rapic Charge/Discharge: up to 1C charge and discharge ability.

[HR5120]

#### ע Technical Parameters

Series						HR5120
Battery Cell Chemistry  Lithium Iron Phosphate (LiFePO <sub>4</sub> or LFP)						O <sub>4</sub> or LFP)
Module Nominal Voltage (V) 102.4						102.4
Module Rated Capacity (Ah)						50
Module Energy (kWh)						5.12
System Model	HR5120-1	HR5120-2	HR5120-3	HR5120-4	HR5120-5	HR5120-6
Battery Module Qty In Series	1	2	3	4	5	6
System Nominal Voltage (V)	102.4	204.8	307.2	409.6	512	614.4
System Energy (kWh)	5.12	10.24	15.36	20.48	25.6	30.72
System Operating Voltage (V)	89.6~115.2	179.2~230.4	268.8~345.6	358.4~460.8	448.0~576.0	537.6~691.2
Rated DC Power (kW)	5.12	10.24	15.36	20.48	25.6	30.72
Standard Charge/Discharge Current (A)						25
Max. Charge/Discharge Current (A) 50						50
Peak Charge/Discharge Current (A) 30/60@60s						0/60@60s
Cycle Life ≥6000 @ 0.5C 80%DOD					80%DOD	
Design Life 20 years					20 years	
Scalability Max 6P					Max 6P	



## Mechinical Specifications لا

Dimension (mm)	440*540*340	440*540*510	440*540*680	440*540*850	440*540*1020	440*540*1190	
Weight (Approx. ±2kg)	67	114	162	209	257	305	
Communication					RS485, CAN		
Ingress Rating	ngress Rating				IP 54		
Safety Standards	afety Standards UN38.3, C				JN38.3, CE		
Installation					R	ack mount	

# צ Environmental Specifications

Storage Temperature (°C)	-20 ~ 55
Operating Temperature Charge (°C)	0 ~ 55
Operating Temperature Discharge (°C)	-20 ~ 60
Operating Relative Humidity	5 ~ 95%
Operating Attuide	≤2000

### ☑ Compatible Inverters



















## צ System Component

No.	Item	Description	Qty
1	Control Unit	/	1
2	Battery Module	HR5120	6
3	System Output Cable +	IF-PA-05716-P(orange)/SC10-6/8AWG/750mm	1
4	System Output Cable -	IF-PA-05716-P(black)/SC10-6/8AWG/750mm	1
5	System Output Cable + screw	M6*14mm	2
6	System Output Cable + nut	M6	2
7	Grounding Cable	SC1.5-5/16AWG/180mm	6
8	Battery Module Comm. Cable	RJ45/130mm	6
9	Battery Module Series Power Cable	IF-PA-05716-P(orange)/IF-PA-05716-P(black)/8AWG/120mm	5
10	Battery to Control Unit + Cable	IF-PA-05716-P/8AWG/1100mm	1
11	Battery to Control Unit - Cable	IF-PA-05716-P/8AWG/60mm	1

