i-BR5K i-Battey Rack 5.12KWh

Low-volt Rack-mount Battery

Provides reliable energy storage with its rack-mounted modular battery. Designed for advanced energy systems, it supports up to 16 units for 81.92kWh. With A-grade LFP cells, enhanced BMS protection, and a space-saving design, it delivers reliable and efficient performance for demanding applications.

A-Grade LFP Cells

Safe, reliable, and long-lasting performance.

Easy Installation

Modular design for flexible capacity and quick setup.

BMS Protection

Hardware and software safeguards against overcharge and over-discharge.

High Power Rate

Supports up to 2.5kW per unit for efficient energy usage.

Scalable Capacity

Connect up to 16 units for a total capacity of 81.92kWh.

Space Saving

Rack-mounted design maximizes space utilization.

Technical Specifications

Model	i-BR5K									
Battery Specification										
Module number	1 Pcs	2 Pcs	3 Pcs	4 Pcs	5 Pcs	6 Pcs	7 Pcs	8 Pcs	9 Pcs	10 Pcs
Nominal Capacity	5.12Kwh	10.24Kwh	15.36Kwh	20.48Kwh	25.6Kwh	30.72Kwh	35.84Kwh	40.96Kwh	46.08Kwh	51.2Kwh
Nominal Voltage	51.2V									
Working Voltage Range	40V-58.4V									
Nominal Charge/Discharge Current	50A	100A	150A	200A	200A	200A	200A	200A	200A	200A
Max.Charge/Discharge Current [1]	100A	200A	200A	200A	200A	200A	200A	200A	200A	200A
Cycle Life [2]	8000 Cycles									
Cell chemistry	Lithium-iron phosphate (LiFePO4)									
General Specification										
Display	LCD screen									
Communication	RS485 / CAN									
Dimensions (W x D x H) [3]	442*480*133mm	442*480*266mm	442*480*399mm	442*480*532mm	442*480*665mm	442*480*798mm	442*480*931mm	442*480*1064mm	442*480*1197mm	442*480*1330mm
Weight [4]	45Kg	90Kg	135Kg	180Kg	225Kg	270Kg	315Kg	360Kg	405Kg	450Kg
Installation	Floor stand stackable									
Operating temperature	–20 °C to +55 °C									
Max. operating altitudes	< 4500m									
Relative humidity	<95% non-condensing									
Cooling	Natural convection									
IP rating	IP 20									
Scalability [5]	Max.16 battery in parallel operation									
Compatible inverters [6]	Afore, Deye, Epever, GSL, Growatt, INVT, Infypower, Megarevo, NEP, Pylon, SAJ, Sinexcel, Sofar, Solis, SRNE, Sunwoda, Victron, Voltronic									

*1 The maximum charging current is limited by the power lines and BMS. Helith recommends a maximum current of 200A.
*2 Test conditions: After 8000 cycles at 80% Depth of Discharge (DOD), 25 °C ambient temperature, and 0.5C discharge rate, the remaining capacity is 70% of the initial capacity (EOL).
*3 The dimensions do not include the rack. The actual installation dimensions may vary depending on the size of the rack.
*4 The weight of the energy storage module is subject to actual products, with a tolerance of ±3%.
*5 If more than 16 batteries are connected in parallel, additional inverters will be required.
*6 For the latest compatibility with inverters, please confirm with the Helith team.

Disclaimer: The above data represents theoretical values measured in a laboratory under specific conditions. Actual values may vary slightly due to product variations, software versions, usage conditions, and environmental factors. Please refer to actual conditions for confirmation.

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