

HHS-1X5/10/15/20K High Voltage ESS



Equipped with DC-DC boost module,
delivering higher efficiency and safety



DC-DC boost

Built-in DC-DC boost voltage to 400V, avoids overheating caused by high currents



Smart balance

Balance between old lower capacity and new battery module



Extremely safe

IP65, LFP prismatic cell and 3-layer safety protection & 5 patented technologies



Flexible scalability

5kWh modular design, scalable from 5kWh to 60kWh



Harsh environment

-10°C -50°C operating temperature

Model	HHS-1X5K	HHS-1X10K	HHS-1X15K	HHS-1X20K
				
Cell type	LiFePO ₄ Prismatic Cell			
Battery module	B40012DP03-H (5 kWh, 400 V, 52 kg)			
Number of battery modules	1	2	3	4
Nominal energy	5 kWh	10 kWh	15 kWh	20 kWh
Usable energy (90% DoD)	4.5 kWh	9 kWh	13.5 kWh	18 kWh
Nominal charge current	6 A	12 A	18 A	24 A
Nominal discharge current	6.5 A	13 A	19.5 A	26 A
Nominal voltage	400 V			
Operating voltage range	350 - 450 V			
Communication	CAN / RS485 / WiFi / LAN			
Protection function	Over and under voltage protection, overcurrent, short circuit protection. High and low temperature protection			
Cycle life	>6000 times (25°C, 0.5 C / 0.5 C, 90% DoD, 70% EoL)			
Scalability	max 3 systems in parallel			
Protection rating	IP65			
Type of cooling	Natural convection			
Working temperature ¹	Charging: [-10, +50] °C; [14, 122] °F			
	Discharging: [-20, +50] °C; [-4, 122] °F			
Working environment humidity	10% ~ 95% (non condensation)			
Working altitude	≤2000 m (Derating over 2000m)			
Warranty	10 Years			
Operating conditions	Indoor or outdoor			
Installation	Ground Installation			
Certifications	IEC 62619, CE			
Transportation	UN 38.3			
Size W * H * D (mm)	653 * 597 * 189	653 * 912 * 189	653 * 1227 * 189	653 * 1542 * 189
Weight	67 kg	119 kg	171 kg	223 kg

¹ to ensure maximum performance, installation in a temperature-controlled environment between 15°C and 40°C is recommended (< 15°C and > 40°C the batteries protect themselves by limiting the current)

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