

NHS-1Y10/15/20/30K

High Voltage ESS



Discharge at -20°C , fool-proof design



Flexible scalability

5kWh modular design, scalable from 10kWh to 60kWh



Fool-proof design

Stack and play, wiring-less connection



Harsh environment

-20°C ~ 50°C discharge






Safe

IP65, for outdoor application



Wide control

Supports WiFi and Bluetooth communication, cloud smart control, remote management and maintenance

	NHS-1Y10K		NHS-1Y15K		NHS-1Y20K	
						
	LiFePO ₄ Pouch Cell					
Battery module	HV5120-S1-N (5.12kWh, 102.4V, 45kg)					
Number of Battery modules	2		3		4	
Nominal energy	10.24 kWh		15.36 kWh		20.48 kWh	
Usable energy (95% DoD)	9.728 kWh		14.592 kWh		19.456 kWh	
Max Charge Current	25 A		25 A		25 A	
Max Discharge Current	40 A		40 A		40 A	
Nominal voltage	204.8 V		307.2 V		409.6 V	
Operating voltage range	182.4 - 230.4 V		273.6 - 345.6 V		364.8 - 460.8 V	
Communication	RS485, CAN, WiFi, Bluetooth					
Protection	Charge overvoltage, discharge under-voltage, overcurrent, over-temperature, short circuit protection, insulation fault protection					
Life cycles	6000 times @ 25°C					
Scalability	Max 2 systems in parallel					
Protection rating	IP65					
Cooling type	Natural convection					
Operating temperature ¹	Charging: [-10, +50]°C					
	Discharging: [-20, +50]°C					
Working environment humidity	≤ 85% (RH)					
Working altitude	≤ 2000 m					
Warranty	10 Years					
Operating Condition	Indoor or outdoor					
Installation	Ground Installation					
Certifications	IEC62619, CE, IEC62638, UKCA					
Transportation	UN38.3					
Size W x H xD	636 x330 x628 mm	636 x330 x816 mm	636 x330 x1004 mm	636 x330 x1192 mm	636 x330 x1380 mm	
Weight	117 kg	165 kg	213 kg	261 kg	309 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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