

NHS-1Y10/15/20/30/35/40K

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	NHS-1Y25K	NHS-1Y30K	NHS-1Y35K	NHS-1Y40K
							
	LiFePO ₄ Pouch Cell						
Battery module	HV5120-S1-N (5.12kWh, 102.4V, 44kg)						
Number of Battery modules	2	3	4	5	6	7	8
Nominal energy	10.24 kWh	15.36 kWh	20.48 kWh	25.6 kWh	30.72 kWh	35.84 kWh	40.96 kWh
Usable energy (95% DoD)	9.728 kWh	14.592 kWh	19.456 kWh	24.32 kWh	29.184 kWh	34.048 kWh	38.912 kWh
Max Charge Current	25 A	25 A	25 A	25 A	25 A	25 A	25 A
Max Discharge Current	40 A	40 A	40 A	40 A	40 A	40 A	40 A
Nominal voltage	204.8 V	307.2 V	409.6 V	512 V	614.4 V	716.8 V	819.2 V
Operating voltage range	182.4 - 230.4 V	273.6 - 345.6 V	364.8 - 460.8 V	456 - 576 V	547.2-691.2 V	638.4-806.4 V	729.6-921.6 V
Communication	RS485, CAN, WiFi						
Protection	Charge overvoltage, discharge under-voltage, overcurrent, over-temperature, short circuit protection, insulation fault protection						
Life cycles	6000 times @ 25°C (77 °F)						
Scalability	Max 8 modules						
Protection rating	IP65						
Cooling type	Natural convection						
Operating temperature ¹	Charging: [-10, +50]°C (14, 122 °F)						
	Discharging: [-20, +50]°C (-4, 122 °F)						
Working environment humidity	≤ 85% (RH)						
Working altitude	≤ 2000 m						
Warranty	10 Years						
Operating Condition	Indoor or outdoor						
Installation	Ground Installation						
Certifications	IEC62619, CE,IEC62368,UKCA						
Transportation	UN38.3						
Country of Manufacture	China						
Size W x H x D	636 x330 x628 mm	636×330×828.4mm	636 x330 x1004 mm	636 x330 x1192 mm	636 x330 x1380 mm	636 x330 x 1568mm	636 x330 x 1756mm
Weight	109 kg	153 kg	197kg	241 kg	285kg	329 kg	373kg

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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