

# NHS-1Y10/15/20/25K

## High Voltage ESS



Discharge at  $-20^{\circ}\text{C}$ , fool-proof design



### Flexible scalability

5kWh modular design, scalable from 10kWh to 50kWh



### Fool-proof design

Stack and play, wiring-less connection



### Harsh environment

$-20^{\circ}\text{C}$ - $50^{\circ}\text{C}$  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
				
	LiFePO <sub>4</sub> Pouch Cell			
Battery module	HV5120-S1-N (5.12kWh, 102.4V, 45kg)			
Number of Battery modules	2	3	4	5
Nominal energy	10.24 kWh	15.36 kWh	20.48 kWh	25.6 kWh
Usable energy (95% DoD)	9.728 kWh	14.592 kWh	19.456 kWh	24.32 kWh
Max Charge Current	25 A	25 A	25 A	25 A
Max Discharge Current	40 A	40 A	40 A	40 A
Nominal voltage	204.8 V	307.2 V	409.6 V	512 V
Operating voltage range	182.4 - 230.4 V	273.6 - 345.6 V	364.8 - 460.8 V	456 - 576 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 ( 77 °F))			
Scalability	Max 5 modules			
Protection rating	IP65			
Cooling type	Natural convection			
Operating temperature <sup>1</sup>	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, 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
Weight	117 kg	165 kg	213 kg	261 kg

<sup>1</sup> 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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