

## Residential ESS (HV)



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



### Flexible scalability

5kWh modular design, scalable from 10kWh to 40kWh



### 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

Model	NHS-1Y10K	NHS-1Y15K	NHS-1Y20K	NHS-1Y25K	NHS-1Y30K	NHS-1Y35K	NHS-1Y40K
Picture							
Cell type	LiFePO4 Pouch Cell						
Battery module	HV5120-S1-N (5.12kWh, 102.4V, 45kg)						
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, Bluetooth						
Protection function	Charge overvoltage, discharge under-voltage, overcurrent, over-temperature, short circuit protection, insulation fault protection, etc.						
Cycle life	6000 times (+25°C)						
Scalability	Module: Max. 8S						
Protection rating	IP65						
Cooling type	Natural convection						
Working temperature	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 * H * D (mm)	636 * 330 * 628	636 * 330 * 816	636 * 330 * 1004	636 * 330 * 1192	636 * 330 * 1380	636 * 330 * 1568	636 * 330 * 1756
Weight	117 kg	165 kg	213 kg	261 kg	309 kg	357 kg	405 kg

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