

NLW-1Y5K

Low Voltage ESS



Slim design & cost effective



2-in-1 super slim design

Wall-mounted or free-standing; 14 cm depth, 50% thinner; 45 kg weight, 10% lighter



Flexible scalability

5kWh modular design, scalable from 5kWh to 15kWh



6 safety protections

Overcharge protection, charge overvoltage, discharge under-voltage, overcurrent, over-temperature, short circuit protection



Safe

IP65, outdoor application



Cost effective

Save on investment cost

Model	NLW-1Y5K
	
Cell type	LiFePO ₄ Prismatic cell
Nominal energy	5.32 kWh
Usable energy (95% DoD)	5.05 kWh
Max. charge current	50 A
Max. discharge current	100 A
Nominal voltage	51.2 V
Operating voltage range	43.2 ~ 57.6 V
Communication	RS485, CAN, WiFi
Protection function	Charge overvoltage, discharge under-voltage, overcurrent, over-temperature, short circuit protection
Cycle life	>6000 (@ 25°C (77°F))
Scalability	Max 3 in parallel
Protection rating	IP65
Cooling type	Natural convection
Working temperature ¹	Charging: [-10, +50]°C (14, 122 °F)
	Discharging: [-20, +50]°C (-4, 122°F)
Working environment humidity	≤ 95% (RH)
Working altitude	≤ 2000m
Warranty	10 years
Operating Condition	Indoor or outdoor
Installation	Wall mounted / Ground installation
Certifications	EC62619, CE, IEC62638, UKCA
Transportation	UN 38.3
Size W x H x D	420 x 650 x 140 mm
Weight	45 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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