



VN-6KHP1-SL5/10/15

All in One ESS Series



Plug & Play

Plug & Play stackable design, 10 minutes fast commissioning.



Active Safety

AFCI active arcing protection.



High PV Acceptance

40~600Vdc, 2X of rated power input.



More Options

3*5.12kWh battery module + Optional battery stack.

Model	VN-6KHP1-SL5	VN-6KHP1-SL10	VN-6KHP1-SL15
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PV Specifications

Max. PV Input Power	11000W
Nominal DC Voltage / Voc	360Vdc/600Vdc
Start-up/ Min. Operation Voltage	50Vdc/40Vdc
No. of MPPTs / Strings	2/1
Max. PV Input/ Short Circuit Current	16A/20A

Input/ Output(AC)

Max. AC Input Power from Grid	11000VA
Rated/ Max. AC Output Power	6000W/6000VA
Rated AC Output Current (at 230V)	26.1A
Max. AC Output Current	27.3A
Rated AC Voltage	220V/230V/240V
AC Voltage Range	154V~276V
Rated Grid Frequency	50Hz/60Hz
Grid Frequency Range	45~55Hz/55~65Hz
Harmonic (THD)	< 3%
Power Factor at Rated Power	> 0.99
Adjustable Power Factor	adj.0.8.overexcited/leading to 0.8 underexcited/lagging
Grid Type	Single phase
Rated Output Power for Backup Load	6000W
Frequency Range in Off Grid Mode	50Hz/60Hz(±0.5%)

Battery Data

Rate Voltage(Vdc)	51.2		
Cell Combination	16S1P*1	16S1P*2	16S1P*3
Rate Capacity(AH)	100	200	300
Energy Storage(KWH)	5.12	10.24	15.36
Cycle Life	>8000 cycles @80% DOD, 0.5C		
Charge Voltage	57.6V		
Max. Charge/Discharge Current(A)	100		
Discharge Cut-off Voltage(VDC)	43.2		
Charge Cut-off Voltage(VDC)	58.4		

Environment

Charge Temperature	0°C to 55°C@60±25% Relative Humidity
Discharge Temperature	-20°C to 55°C@60±25% Relative Humidity
Storage Temperature	-20°C to 55°C@60±25% Relative Humidity

Mechanical

IP Class	IP65		
Material System	LiFePO4		
Case Material	Meta		
Case Type	All in One Stack		
Dimension L*W*H(mm)	640*205*1008	640*205*1350	640*205*1692
Package Dimension L*W*H(mm)	760*725*345+760*335*450*1	760*725*345+760*335*450*2	760*725*345+760*335*450*3
Net Weight(kg)	25+46*1	25+46*2	25+46*3
Gross Weight(kg)	30+51*1	30+51*2	30+51*3

Communication

Protocol(Optional)	RS485/RS232/WLAN Optional
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Certificates

System	UN38.3,MSDS,EN,IEC,NRS,G99
Cell	UN38.3,MSDS,IEC62619,CE,UL1973,UL2054