

N1PH-1N3/3.6/5/6K

NAHUI

Single-phase Hybrid Inverter (HV)



Compact size with maximum performance



Super efficiency

Battery charge and discharge efficiency 10-15% higher than low voltage product



Smart control

Supports remote firmware upgrade and working modes




Safe

IP65, for outdoor application



High yields

Supports 1.5 DC:AC ratio to connect more PV capacity

Model	N1PH-1N3K	N1PH-1N3.6K	N1PH-1N5K	N1PH-1N6K
Picture				
Input DC (PV side)				
Recommended max. PV power	4.5 kW	5.5 kW	7.5 kW	9 kW
Max. input voltage	600 V			
Rated voltage	360 V			
MPPT voltage range	120 ~ 550 V			
Start-up voltage	150 V			
MPPT number	2			
Max. input strings number per MPPT	1			
Max. input current per MPPT	13.5 A / 13.5 A			
Max. short circuit current per MPPT	17 A / 17 A			
Battery				
Battery type	Li - ion			
Rated Battery Voltage	80 ~ 450 V			
Max. charge / discharge current	25 A	25 A	25 A	25 A
Output AC (Grid side)				
Rated output power	3 kW	3.68 kW	5 kW	6 kW
Max. apparent output power	3kVA	3.68kVA	5VA	6VA
Rated grid voltage	1 / N / PE, 220 V / 230 V			
Rated grid frequency	50 Hz / 60 Hz			
Rated grid output current	13 A	16 A	21.7 A	26.1 A
Power factor	0.8 leading - 0.8 lagging			
THDi	< 2%			
Input AC (Grid side)				
Input voltage range	160 ~ 290 V			
Frequency range	45 - 55 Hz / 55 - 65 Hz			
Output AC (Back-up)				
Rated output power	3 kW	3.68 kW	5 kW	6 kW
Max. apparent output power	3.6 kVA, 600s	4.416 kVA, 600s	6 kVA, 600s	7.2 kVA, 600s
Back-up switch time	< 0.5 s			
Rated output current	13 A	16 A	21.7 A	26.1 A
Rated output voltage	220 V / 230 V			
Rated output frequency	50 Hz / 60 Hz			
THDv (@linear load)	< 3 %			
Efficiency				
Max. efficiency	97.42%	97.45%	97.50%	97.50%
EU efficiency	97.15%	97.17%	97.20%	97.20%
Protection				
DC Insulation Monitoring	Yes			
Input Reverse Polarity Protection	Yes			
Anti-islanding Protection	Yes			
Residual Current Monitoring	Yes			
Over-heat Protection	Yes			
AC Overcurrent Protection	Yes			
AC Short Circuit Protection	Yes			
AC Overvoltage Protection	Yes			
DC Surge Protection	Yes			
AC Surge Protection	Yes			
General Data				
Dimensions (W * H * D)	520 * 412 * 172			
Weight	20 kg			
Topology	Non-isolation			
Operating ambient temperature range	-30°C ~ +60°C			
Protection rating	IP65			
Cooling concept	Natural Convection			
Max. operation altitude	2000 m			
Operation Humidity	0 ~ 100%			
Grid connection standard	AS / NSZ 4777. 2 : 2020			
Safety/EMC standard	IEC 62109-1, IEC 62109-2, EN61000-6-2, EN 61000-6-3			
Features				
Display	LCD + OLED			
Communication	RS485, Wi-Fi; Optional: 4G			

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