NAHUI
Haier's Renewable Energy Platform

NL1P-3/3.6/5/6KA2/H
Single-phase Hybrid Inverter

Silicon carbide, compact size with high efficiency

Highest saving on bills
Supports a setting with maximum of 6 charging and discharging periods

High yields
Supports 1.5 DC: AC ratio to connect more PV capacity

High performance
16 A High performance

EPS
Back-up switch time < 10 ms

Model	NL1P-3KA2/H	NL1P-3.6KA2/H	NL1P-5KA2/H	NL1P-6KA2/H
Input DC (PV side)				
Max. input power (kW)	4.5	5.4	7.5	9
Start-up voltage (V)	100			
Max. PV voltage (V)	550			
MPPT range/nominal (V)	(80 - 500 / 360)			
Max. input current of single MPPT (A)	16 / 16	16 / 16	16 / 16	16 / 16
No. of MPPT trackers	2	2	2	2
No. of strings per MPPT trackers	1 / 1	1 / 1	1 / 1	1 / 1
Battery				
Battery voltage range (V)	40 - 58			
Max. charging voltage (V)	58			
Max. charge/discharge Current (A)	60 / 60	72 / 72	100 / 100	120 / 120
Battery Type	Lithium / Lead - acid			
Communication Interface	CAN / RS485			
Output AC (Grid side)				
Rated power (kW)	3	3.68	5	6
Max. rated output current (A)	14.3	16	21.7	28.7
Nominal voltage / range (V)	230			
Frequency (Hz)	50 / 60			
Power factor	1 (0.8 leading-0.8 lagging)			
THDi	< 3%			
AC grid type	L+N+PE			
Output AC (EPS)				
Rated power (kW)	3	3.68	5	6
Rated voltage (V)	230			
Max. rated Output Current (A)	14.3	16	21.7	28.7
Rated frequency (Hz)	50 / 60			
Automatic switch-over time (ms)	< 10			
THDu	< 2 %			
Overload capacity	110% , 60s / 120% , 30s / 150% , 10s			
General data				
Battery charge / discharge efficiency	96%			
DC Max. efficiency	98%			
Europe efficiency	≥97%			
MPPT efficiency	99.90%			
Ingress protection	IP65			
Noise emission (dB)	< 35			
Operation temperature (°C)	-25 ~ 60 (13 ~ 140°F)			
Cooling	Natural Convection			
Relative Humidity	0 - 95% (non-condensing)			
Operating altitude	2,000 m (>2,000 Derating)			
Dimensions (W x H x D)	454.5 x200 x467			
Net weight (kg)	19			
Topology	Non-isolated			
Self-consumption at night (W)	< 15			
Display and communication				
Display	Color screen			
Communication	WiFi dongle, RS485, CAN , DRM			

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