

Energy Storage Products N3 HV Series

5kW / 6kW / 8kW / 10kW
Three Phase, 2 MPPTs
High Voltage Hybrid Inverter



FEATURES

-  Compatible with high power PV modules with 18A
-  Support 100% unbalanced loads
-  < 10ms UPS-level switching
-  Support up to 10 units parallel connections
-  Remote firmware upgrade & work mode setting
-  Support VPP / FFR function

Model	N3-HV-5.0	N3-HV-6.0	N3-HV-8.0	N3-HV-10.0
PV Input Data				
Recommended Max. PV Power [Wp]	7500	9000	12000	15000
Max. PV Input Voltage [V]			1000	
MPPT Voltage Range [V]			160 ~ 950	
Rated PV Input voltage [V]			600	
Start-up Voltage [V]			180	
No. of MPP Trackers			2	
No. of Input Strings per Tracker			1	
Max. Input Current per MPPT [A]			18 / 18	
Max. Short-circuit Current per MPPT [A]			23 / 23	
DC Switch			Integrated	
AC Output Data				
Rated AC Power [W]	5000	6000	8000	10000
Rated AC Current [A]	7.6	9.1	12.2	15.2
Rated AC Voltage / Range [V]		3 / N / PE, 220 / 380, 230 / 400; ± 20%		
Grid Frequency / Range [Hz]			50 / 60; ± 5	
Adjustable Power Factor [cosφ]			0.8 leading ~ 0.8 lagging	
Output THDi (@Rated Output)			< 3%	
AC Input Data				
Max. apparent AC Power [VA]	10000	12000	16000	20000
Max. AC Current [A]	15.2	18.2	24.4	30.4
Rated AC Voltage / Range [V]		3 / N / PE, 220 / 380, 230 / 400; ± 20%		
Grid Frequency / Range [Hz]			50 / 60; ± 5	
Battery Data				
Battery Type			Lithium	
Battery Voltage Range [V]			160 ~ 700	
Max. Charging / Discharging Current [A]			30 / 30	
Communication Interface			CAN	
EPS Output Data (With Battery)				
EPS Rated Power [W]	5000	6000	8000	10000
EPS Rated Voltage [V]		3 / N / PE, 220 / 380, 230 / 400		
EPS Rated Frequency [Hz]			50 / 60	
EPS Rated Current [A]	7.6	9.1	12.2	15.2
Output THDi (@Rated Output)			< 3%	
Automatic Switch Time [ms]			< 10	
Peak Apparent Power, Duration [VA, s]	7500, 60	9000, 60	12000, 60	15000, 60
Efficiency				
Max. Efficiency	98.00%	98.00%	98.00%	98.00%
Euro Efficiency	97.70%	97.70%	97.70%	97.70%
Max. Battery Charge / Discharge Efficiency	97.60%	97.60%	97.60%	97.60%
Protection				
DC Insulation Monitoring			Integrated	
Input Reverse Polarity Protection			Integrated	
Anti-island Protection			Integrated	
Residual Current Monitoring			Integrated	
Over-heat Protection			Integrated	
AC Overcurrent Protection			Integrated	
AC Short-circuit Protection			Integrated	
AC Overvoltage Protection			Integrated	
DC Surge Protection			Integrated (Type II)	
AC Surge Protection			Integrated (Type II)	
General Data				
Size (Width * Height * Depth) [mm]			520 * 412 * 186	
Weight [kg]			27	
User Interface			LED + OLED	
Communication			RS485 and USB or Wifi or 4G (Optional)	
Operating Temperature Range [°C]			-25 ~ +60	
Relative Humidity			0 ~ 100%	
Operating Altitude [m]			≤ 2000	
Standby Self Consumption [W]			< 15	
Topology			Transformerless	
Cooling			Natural	
Enclosure			IP65	
Noise [dB]			< 35	
Warranty [years]			5	
Certifications & Standards				
Grid Regulation	VDE-AR-N 4105, EN 50549-1, VDE 0126, CEI 0-21, EN 50549-PL, ÖVE/ÖNORM E 8001-4-712, EN50549-CZ			
Safety Regulation	IEC 62109-1, IEC 62109-2			
EMC	IEC 61000-6-1, IEC 61000-6-3			