

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

N3 HV Series

Model	N3-HV-5.0	N3-HV-6.0	N3-HV-8.0	N3-HV-10.0
PV Input Data				
Max. Recommended PV Power [Wp]	7500	9000	12000	15000
Max. PV Input Voltage [V]	1000			
MPPT Voltage Range [V]	180 ~ 960			
Rated PV Input voltage [V]	600			
Start-up Voltage [V]	160			
No. of MPP Trackers	2			
No. of Input Strings per Tracker	1			
Max. PV Input Current [A]	18 / 18			
Max. Short-circuit Current per MPPT [A]	23			
DC Switch	Integrated			
AC Input / Output Data				
Rated AC Power [W]	5000	6000	8000	10000
Max. AC Power Output to Grid [VA]	5500	6600	8800	11000
Max. AC Power from Grid [VA]	10000	12000	16000	20000
Rated AC Current [A]	7.6	9.1	12.2	15.2
Rated AC Voltage / Range [V]	3 / N / PE, 220 / 380, 230 / 400			
Grid Frequency / Range [Hz]	50 / 60			
Ajustable Power Factor [cosφ]	0.8 leading ~ 0.8 lagging			
Output THDi (@Rated Output)	< 3%			
Battery Data				
Battery Type	Lithium			
Battery Voltage Range [V]	160 ~ 700			
Max. Charging / Discharging Current [A]	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	Type II			
AC Surge Protection	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]	≤ 4000			
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			