







# Energy Storage Products

# JN3 HV Series

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



## FEATURES

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

# JN3 HV Series

Model	JN3-HV-5.0	JN3-HV-6.0	JN3-HV-8.0	JN3-HV-10.0-A	JN3-HV-10.0
<b>PV Input Data</b>					
Recommended Max. PV Power [Wp]	7500	9000	12000	15000	15000
Max. PV Input Voltage [V]			1000		
MPPT Voltage Range [V]			160 - 950		
Rated PV Input voltage [V]			600		
Start-up Voltage [V]			160		
No. of MPP Trackers			2		
No. of Input Strings per Tracker			1		
Max. Input Current per MPPT [A]			36 (18 / 18)		
Max. Short-circuit Current per MPPT [A]			46 (23 / 23)		
DC Switch			Integrated		
<b>AC Output Data</b>					
Maximum Apparent Power [VA]	5500	6600	8800	10000	11000
Rated AC Power [W]	5000	6000	8000	10000	10000
Maximum AC Current [A]	7.6	9.1	12.2	14.4	15.2
Rated AC Current [A]	7.2	8.7	11.5	14.4	14.4
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%		
<b>AC Input Data</b>					
Max. apparent AC Power [VA]	10000	12000	16000	20000	20000
Max. AC Current [A]	15.2	18.2	24.3	28.8	30.4
Rated AC Voltage / Range [V]			3 / N / PE, 220 / 380, 230 / 400; ± 20%		
Grid Frequency / Range [Hz]			50 / 60; ± 5		
<b>Battery Data</b>					
Battery Type			Lithium		
Battery Voltage Range [V]			160 ~ 700		
Max. Charging / Discharging Current [A]			30 / 30		
Communication Interface			CAN		
<b>EPS Output Data (With Battery)</b>					
EPS Rated Power [W]	5000	6000	8000	10000	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	14.4	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	15000, 60
<b>Efficiency</b>					
Max. Efficiency	98.00%	98.00%	98.00%	98.00%	98.00%
Euro Efficiency	97.70%	97.70%	97.70%	97.70%	97.70%
Max. Battery Charge / Discharge Efficiency	97.60%	97.60%	97.60%	97.60%	97.60%
<b>Protection</b>					
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)		
<b>General Data</b>					
Size (Width * Height * Depth) [mm]			520 * 412 * 188		
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		
<b>Certifications &amp; Standards</b>					
Grid Regulation	VDE 4105, EN 50549-1, VDE 0126, CEI 0-21, EN 50549-GR, EN 50549-PL, TOR Erzeuger, EN50549-CZ, AS4777, UNE217002				
Safety Regulation	IEC 62109-1, IEC 62109-2				
EMC	EN/IEC 61000-6-1, EN/IEC 61000-6-3				