

Three-phase Hybrid Inverter

HYNV5/6/8/10/12K-G01



FEATURES



Safe & Reliable

- Integrated arc fault circuit interrupter (AFCI)
- IP66 ingress protection
- 4ms backup mode switching time



Superior Performance

- 98.4% maximum conversion efficiency
- Support up to 3HP air conditioner black startup
- 100% three-phase unbalanced output



Convenient Installation

- All quick Plug and Play terminals
- Ergonomic handle
- WIFI + LAN connection for 24/7 monitoring



Flexible Application

- Up to 20 A string current
- Support 210 mm & bifacial PV modules
- 120 – 800 V wide battery voltage range



PARAMETERS

Model	HYNV5K-G01	HYNV6K-G01	HYNV8K-G01	HYNV10K-G01	HYNV12K-G01
PV Input					
Recommended Max. PV Power	7.5 kW	9 kW	12 kW	15 kW	18 kW
Max. PV Input Voltage	1000 V				
Operating Voltage Range	140 – 950 V			200 – 950 V	
Startup Voltage	180 V			250 V	
Rated Input Voltage	600 V				
Number of MPP Trackers	2				
Max. Input Number Per MPP Tracker	1/1			2/1	
Max. Input Current Per MPPT	20/20 A			27/20 A	
Max. Short-circuit Current	30/30 A			40.5/30 A	
Battery					
Battery Type	Lithium battery				
Battery Voltage	120 – 800 V				
Max. Charge / Discharge Current	30 A			37 A	
Max. Charge / Discharge Power	5 kW	6 kW	8 kW	10 kW	12 kW
Communication	CAN / RS485				
AC Output (Grid)					
Rated Output Power	5 kW	6 kW	8 kW	10 kW	12 kW
Max. Apparent Output Power	5.5 kVA	6.6 kVA	8.8 kVA	11 kVA	13.2 kVA
Rated Grid Voltage	380 V / 400 V (3P + N + PE)				
Rated Grid Frequency	50 Hz / 60 Hz				
Max. Output Current	8.4 A	10 A	13.3 A	16.7 A	20 A
Power Factor	>0.99 (0.8 leading – 0.8 lagging)				
THDi	<3% (at rated power)				
AC Output (Backup)					
Rated Output Power	5 kW	6 kW	8 kW	10 kW	12 kW
Max. Apparent Output Power	5.5 kVA	6.6 kVA	8.8 kVA	11 kVA	13.2 kVA
Back-up Switch Time	4 ms				
Rated Output Voltage	380 V / 400 V (3P + N + PE)				
Rated Frequency	50 Hz / 60 Hz				
THDv (Linear Load)	<3%				
AC Input (Grid)					
Max. Input Power	10 kW	12 kW	16 kW	20 kW	24 kW
Rated Input Current	15.2 A	18.2 A	24.2 A	30.3 A	36.4 A
Rated Input Voltage	380 V / 400 V (3P + N + PE)				
Rated Input Frequency	50 Hz / 60 Hz				
Efficiency					
Max. Efficiency	98.4%				
European Efficiency	96.5%	96.8%	97.3%	97.4%	97.5%
Protection & Function					
Grid Monitoring	Yes				
AC Short-circuit Protection	Yes				
DC Reverse Polarity Protection	Yes				
DC Overcurrent Protection (Battery)	Yes				
DC Switch (PV)	Yes				
Surge Protection	Yes				
Integrated AFCI	Optional				
General Data					
Topology (Solar / Battery)	Transformerless / transformerless				
Dimensions (W × H × D)	518 × 583 × 195 mm			518 × 583 × 205 mm	
Weight	23 kg			27 kg	
Degree of Protection	IP66				
Operating Temperature Range	-25 – +60 °C				
Operating Humidity Range	0 – 95% (non-condensing)				
Max. Operating Altitude	3000 m				
Cooling Method	Natural cooling				
Display	LED, APP, Web				
Communication	CAN / RS485				
DC Connection Type	MC4				
AC Connection Type	Plug and play connector				

All specifications are subject to change without notice.



Shenzhen Hopewind Electric Co., Ltd. All rights reserved. Information may be subject to change without notice.