

HOPEWIND

GREEN RESIDENTIAL SOLUTION

PV Hybrid Inverter

HYNV5-12K -G01



TIER 1
BloombergNEF

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Hopewind is ranked as
Tier 1 Solar Inverter Maker by BNEF



FEATURES



Safe & Reliable

- 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

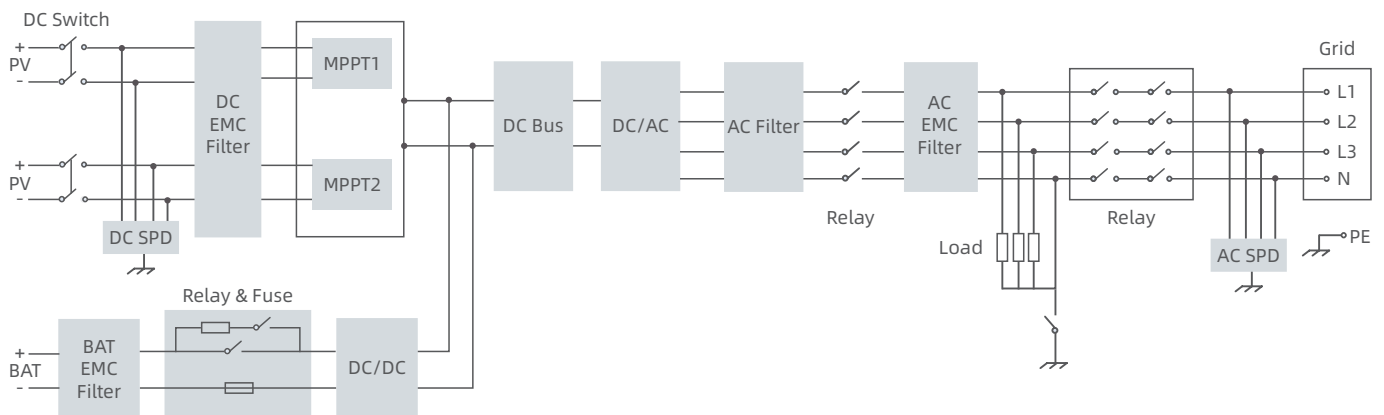
- All quick Plug and Play terminals
- Ergonomic handle
- Wi-Fi+LAN connection for 24/7 monitoring



Flexible Application

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

TOPOLOGICAL GRAPH



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 A / 20 A			27 A / 20 A	
Max. Short-circuit Current	30 A / 30 A			40.5 A / 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				
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.

