

# Hybrid Inverter

High Voltage  
Three-phase Series



## Flexible

Lightweight and compact easy to install;  
IP65 protection grade, wall-mounted to save space;  
Seamless transition to backup mode for protection  
against power outages.



## Reliable

Built-in EMS to optimize battery management;  
Provides 100% unbalanced loads in backup mode;  
Support battery reverse polarity protection and  
anti-backflow function.



## Advanced

Remote software updates and customizable settings;  
Touch flexible commissioning with smartphone;  
Free online monitoring to enhance energy management for end users, installer and retailer.

# Data Sheet

Model No.	iINV-HB3-8.0KH	iINV-HB3-10.0KH	iINV-HB3-12.0KH	iINV-HB3-15.0KH
<b>PV input</b>				
Max. input power	12kW	15kW	18kW	22.5kW
Max. input voltage			1000V	
Rated input voltage			700V	
MPPT voltage range			180-850V	
Full power MPPT voltage range	330-850V	430-850V	510-850V	620-850V
Start-up voltage			125V	
Max. input current			13A/13A	
Max. short-circuit current			16A/16A	
NO. of MPPT trackers			2	
NO. of strings per MPPT			2	
<b>AC output</b>				
Nominal output power to grid	8kVA	10kVA	12kVA	15kVA
Max. output power	8.8kVA	11.0kVA	13.2kVA	16.5kVA
Max. apparent power from grid	17.6kVA	22kVA	26.4kVA	33kVA
Max. apparent current from grid	25.5A	31.8A	38.2A	47.6A
Nominal output current to grid	11.5A	14.4A	17.3A	21.7A
Max. output current	12.7A	15.9A	19.1A	23.8A
Rated voltage			380/400V	
Frequency			50/60Hz	
Power factor			0.99 lagging - 0.99 leading	
THDi			< 3%	
Output topology			3W+N+PE	
<b>Battery Data</b>				
Battery type			Lithium/Lead-acid	
Voltage range			125-600V	
Battery working voltage range			150-550V	
Max. charging current			50A	
Max. discharging current			50A	
Rated charging current			40A	
Rated discharging current			40A	
Communication interface			CAN	
<b>EPS output</b>				
Nominal output power	8kVA	10kVA	12kVA	15kVA
Max. output power	8.8kVA	11.0kVA	13.2kVA	16.5kVA
Nominal output voltage			400V,3W+N+PE	
Nominal output current	11.5A	14.4A	17.3A	21.7A
Max. output current	12.7A	15.9A	19.1A	23.8A
Nominal output frequency			50/60Hz	
Switch time			< 10ms	
THDu			< 2%	
<b>General data</b>				
MPPT efficiency			99.9%	
Max. efficiency	97.9%	98.2%	98.2%	97.6%
Euro. efficiency	97.2%	97.5%	97.5%	97.8%
Max. battery charging/discharging efficiency	97.5%	97.5%	97.6%	97.8%
Dimensions (W×D×H)			596*220*566mm	
Weight			32kg	
Operation temperature			-25°C-60°C	
Relative humidity			0-95% (no condensing)	
Altitude			4,000 (>2,000 Derating)	
Protection grade			IP65	
Cooling			Natural	
Noise			≤25dB	
Self-consumption			< 20W	
<b>Features</b>				
HMI			LCD, APP	
Communication			CAN / RS485 / WIFI / GPRS (optional)	
<b>Certification</b>				
Certificates	CE, RoHS, EN50549, VDE, G99, RfG, NC RFG, PTPIREE, PPDS, NRS,CEI			

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