

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
PV input			
Max. input power	12kW	15kW	18kW
Max. input voltage		1000V	
Rated input voltage		700V	
MPPT voltage range		180-850V	
Full power MPPT voltage range	330-850V	430-850V	510-850V
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	
AC output			
Nominal output power to grid	8kVA	10kVA	12kVA
Max. output power	8.8kVA	11.0kVA	13.2kVA
Max. apparent power from grid	17.6kVA	22kVA	26.4kVA
Max. apparent current from grid	25.5A	31.8A	38.2A
Nominal output current to grid	11.5A	14.4A	17.3A
Max. output current	12.7A	15.9A	19.1A
Rated voltage		380/400V	
Frequency		50/60Hz	
Power factor		0.99 lagging - 0.99 leading	
THDi		< 3%	
Output topology		3W+N+PE	
Battery Data			
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	
EPS output			
Nominal output power	8kVA	10kVA	12kVA
Max. output power	8.8kVA	11.0kVA	13.2kVA
Nominal output voltage		400V,3W+N+PE	
Nominal output current	11.5A	14.4A	17.3A
Max. output current	12.7A	15.9A	19.1A
Nominal output frequency		50/60Hz	
Switch time		< 10ms	
THDu		< 2%	
General data			
MPPT efficiency		99.9%	
Max. efficiency	97.9%	98.2%	98.2%
Euro. efficiency	97.2%	97.5%	97.5%
Max. battery charging/discharging efficiency	97.5%	97.5%	97.6%
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	
Features			
HMI		LCD, APP	
Communication		CAN / RS485 / WIFI / GPRS (optional)	
Certification			
Certificates	CE, RoHS, EN50549, VDE, G99, RFG, NC RFG, PTPIREE, PPDS, NRS,CEI		

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