

Hybrid Inverter

Low Voltage
Single-phase Series



Hoenergy hybrid inverter adopts ZVS, phase-shifted full bridge and other technologies, while achieving seamless multi-mode switching, it also ensures safety, high efficiency, and low-interference operating performance, thereby enhancing the stability and reliability of the overall energy storage system.



SAFE & RELIABLE

IP65 protection grade to resist outdoor tough weather
Seamless transition to backup mode when grid power off



FLEXIBLE & EASY INSTALLATION

Lightweight and compact, optimized for heat dissipation
Plug and play interface, easy to install



INTELLIGENT & EFFICIENT

Built-in EMS to optimize battery management
Charging & discharging efficiency reach up to 95%



ADVANCED & FRIENDLY

APP monitoring, hold your home energy in real-time
Remote software updates and customizable settings



Data Sheet

Model No.	iINV-HB1-3.6KL	iINV-HB1-5.0KL	iINV-HB1-6.0KL
PV input			
Max. Input Power	4.6kW	7kW	7kW
Start-up voltage		120V	
Max. PV voltage		550V	
MPPT range/nominal		125V-500V/360V	
Max. input current		14A/14A	
MPPT tracker/strings		2/1	
AC output			
Rated power va	3600VA	5000VA	6000VA
Max. output current	16.0A	21.7A	26.0A
Nominal voltage/range		230V/176V~270V	
Frequency		50/60Hz	
Power Factor		1(0.99lagging-0.99leading)	
THDI		<3%	
AC output topology		L+N+PE	
Battery			
Battery voltage range		40V~58V	
Max. charging voltage		58V	
Charge/discharge current	95.0A/75.0A	95.0A/104.2A	95.0A/110.0A
Battery type		lithium/Lead-acid	
Communication interface		CAN	
EPS output			
Rated power va	3600VA	5000VA	6000VA
Rated voltage		230V	
Rated current	16.0A	21.7A	26.0A
Rated frequency		50/60Hz	
Automatic switchover time		<10ms	
THDU		<2%	
Overload capacity		110%,60s/120%,30s/150%,10s	
General data			
Battery chage/discharge		95.0%	
DC max. efficiency		97.6%	
Euro efficiency		97.0%	
MPPT efficiency		99.9%	
Protection class		IP65	
Noise emission (typical)		<35dB	
Operation temperature		- 25℃ ~+60℃	
Cooling		Natural	
Relative humidity		0~95% (non-condensing)	
Altitude		2000m	
Dimensions (LxWxH)		550x200x520mm/22x8x20inch	
Weight		25kg	
Inverter topology		Without transformer	
Self-consumption		<3W	
Features			
Display		LCD	
Interface:RS485/CAN/DRM/WIFI		yes/yes/yes/opt	
Certificates			
Certificates	NRS,CE, RoHS, G98, G99, EN50549, CEI		

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