

# Hybrid Inverter

## Low Voltage Single-phase Series



Sunnygrow 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.



### Support all kinds of scenes

Meet the high-cold and humid areas, and the outdoor version perfectly responds to various types of outdoor weather



### Multi-mode seamless switching

Intelligent switching of various application modes, seamless switching of energy storage when grid power off



### High efficient conversion

Combined with phase-shifting full-bridge technology, charging /discharging efficiency reach up to 95% on the basis of safety and reliability



### Excellent security control

Pre-set security measures for various abnormal risks to ensure timely prevention of risks from occurring and spreading



# Data Sheet



Model No.	iINV-HB1-3.6KL	iINV-HB1-5.0KL	iINV-HB1-6.0KL
<b>PV input</b>			
Max. Input Power	4600W		7000W
Start-up voltage		120V	
Max. PV voltage		550V	
MPPT range/nominal		125V-500V/360V	
Max. input current		14A/14A	
MPPT tracker/strings		2/1	
<b>AC output</b>			
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	
<b>Battery</b>			
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	
<b>EPS output</b>			
Rated power va	3600VA	5000VA	6000VA
Rated voltage		230V	
Rated current	16.0A	21.7A	26.0A
Rated frequency		50/60Hz	
Automatic switchover time		<20ms	
THDU		<2%	
Overload capacity		110%,60s/120%,30s/150%,10s	
<b>General data</b>			
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		26kg	
Inverter topology		Without transformer	
Self-consumption		<3W	
<b>Features</b>			
Display		LCD	
Interface:rs485/can/drm/wifi/gprs		yes/yes/yes/opt/opt	
<b>Certificates</b>			
Certificates	CE/TUV/SAA/IEC62116:2014/IEC61683:1999		

contact us:

Anhui Zhonghan Solar Technology Co.,. Ltd.

Tel: +86 18205626175

Email: market03@zhonghansolar.com

Website: www.zhonghansolar.com