

# US Hybrid Inverter

Split-phase  
Low Voltage Series



Wide input voltage range, support for high-power modules



Support for multi-machine parallel connection



Single-machine back-up mode load capacity 110 A



Clean energy self-consumption, reduce electricity bill



Power the entire home when outage



APP monitoring, manage and control home energy in real-time



# Data Sheet

Model No.	iINV-HB1-US5.0L	iINV-HB1-US6.0L	iINV-HB1-US7.6L	iINV-HB1-US8.0L
<b>Input (PV)</b>				
Max. power (kW)	7.5	9	12	12
Max. DC voltage (V)			500	
MPPT voltage range (V)			120 ~ 500	
Max. Input current of single MPPT (A)			12	
PPT tracker/strings			4/1	
<b>AC output</b>				
Rated output power (kVA)	5	6	7.6	8
Max. output current (A)	24	28.8	36.5	38.3
AC output voltage (V)		120/240 (split phase), 208 (2/3 phase), 230 (single phase)		
Frequency (Hz)		50 / 60		
Power Factor		0.8 lagging - 0.8 leading		
THDi		< 3%		
AC output topology		Split phase, 2/3 phase, single phase		
<b>Battery</b>				
Battery voltage range (V)		40 ~ 58		
Max. charging voltage (V)		58		
Max. charge/discharge current (A)	120/120	135/135	190/190	190/190
Battery type		Lithium / Lead-acid		
Communication interface		CAN / RS485		
<b>EPS output</b>				
Rated power (kVA)	5	6	7.6	8
Rated output voltage (V)		120/240 (split phase), 208 (2/3 phase), 230 (single phase)		
Rated output current (A)	24	28.8	36.5	38.3
Rated frequency (Hz)		50/60		
Automatic switchover time (ms)		<20		
THDu		< 2%		
Overload capacity		125%, 60S / 150, %1S		
<b>General data</b>				
Max. efficiency		≥ 98.2%		
North American efficiency		≥ 97.2%		
Protection class		IP65 / NEMA 3R		
Noise emission (dB)	<25	<29	<29	<29
Operation temperature		-25°C ~ 60°C		
Cooling		Fan Cooling		
Relative humidity		0~95% (non-condensing)		
Altitude		2,000m (>2,000 Derating)		
Dimensions W *D *H (mm)		430*220*710		
Weight (kg)		41		
Isolation transformer		No		
Self-consumption (W)		<3		
<b>Display and communication</b>				
Display		LCD, touch screen		
Interface: RS485 / Wifi / 4G / CAN / DRM		Yes		
Safety standard		UL1741SA all options, UL1699B, CSA 22.2		
EMC		FCC Part 15, Class B		
On-grid		IEEE 1547, IEEE 2030.5, Hawaii Rule 14H, Rule 21 Phase I, II, III, NRS		

Contact us:

Shanghai Hoenergy Power Technology Co., Ltd

Tel: +86 152 2195 1952

Email: info@hoenergy.com.cn

Website: www.hoenergypower.com

