

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-US6.0L	iINV-HB1-US8.0L
Input (PV)		
Max. power (kW)	9	12
Max. DC voltage (V)	500	
MPPT voltage range (V)	120~500	
Max.Input current of single MPPT (A)	12	
MPPT tracker/strings	4/1	
AC output		
Rated output power (kVA)	6	8
Max. output current (A)	28.8	38.3
Ac output voltage (V)	120/240(split phase), 208(2/3 phase),230 (single phase)	
Frequency (Hz)	50/60	
Power Factor	0.8lagging-0.8leading	
THDi	< 3%	
AC output topology	Split phase, 2/3 phase, single phase	
Battery		
Battery voltage range (V)	40~58	
Max. charging voltage (V)	58	
Max. charge/discharge current (A)	135/135	190/190
Battery type	lithium /Lead-acid	
Communication interface	CAN/RS485	
EPS output		
Rated power (kVA)	6	8
Rated output voltage (V)	120/240 (split phase), 208 (2/3 phase),230 (single phase)	
Rated output current (A)	28.8	38.3
Rated frequency (Hz)	50/60	
Automatic switchover time (ms)	< 20	
THDu	< 2%	
Overload capacity	125%,60S/150%,1S	
General data		
Max. efficiency	≥98.2%	
North american efficiency	≥97.2%	
Protection class	IP65/NEMA 3R	
Noise emission(dB)	<29	
Operation temperature	-25℃ ~ 60℃	
Cooling	Natural	
Relative humidity	0 ~95% (non-condensing)	
Altitude	2,000m	
Dimensions W *D *H (mm)	430*220*710	
Weight(kg)	41	
Isolation transformer	No	
Self-consumption (W)	<3	
Display and communication		
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,NRS	