

# US Hybrid Inverter

Split-phase  
High Voltage Series



Support for high-power modules



Power the entire home when outage



Provides 100% unbalanced loads in backup mode



Battery reverse connection protection, compatible with anti-countercurrent function



Support full power discharge, automatic management of battery charge and discharge



Real-time tracking & monitoring, hold your energy at your fingertips

# Data Sheet

Model No.	iINV-HB1-US6.0H	iINV-HB1-US8.0H	iINV-HB1-US10.0H	iINV-HB1-US12.0H
<b>Input (PV)</b>				
Max. power (kW)	7.8	10.4	13	15.6
Max. DC voltage (V)			500	
MPPT voltage range (V)			125 - 500	
Max. Input current of single MPPT(A)			12	
MPPT tracker/strings			4/1	
<b>AC output</b>				
Rated output power (kVA)	6	8	10	12
Max. output current (A)	27.3	36.4	45.4	50
Grid voltage/range (V)			240/211~264	
Frequency (Hz)			50/60	
Power factor			0.8lagging-0.8leading	
THDi			< 3%	
AC output topology			L+N+PE	
<b>Battery</b>				
Battery voltage range (V)			85~400	
Max. charging voltage (V)			400	
Full battery voltage(V)	85	110	140	160
Max. charge/discharge current(A)			80/80	
Battery type			lithium /Lead-acid	
Communication Interface			CAN,RS485	
<b>EPS output</b>				
Rated power (kVA)	6	8	10	12
Rated output voltage (V)			220-240 /110-120	
Rated frequency (Hz)			50/60	
Automatic switchover time(ms)			<20	
THDu			< 2%	
Overload capacity			110%,30S/120%,10S/150%,0.02S	
<b>General data</b>				
Max. efficiency			≥98.2%	
CEC efficiency			≥97.2%	
Protection class			IP65/NEMA 3R	
Noise emission (dB)	<25	<25	<29	<29
Operation temperature			-25℃ ~60℃	
Cooling			Natural	
Relative humidity			0 ~95% (non-condensing)	
Altitude			2,000m	
Weight (kg)			32	
DimensionsW*D*H (mm)			530* 200* 660	
<b>Display and communication</b>				
Display			LCD	
Interface:RS485/Wifi/4G/ CAN/DRM			Yes/ Opt/ Opt/ Yes/Yes	
Standby power consumption at night(W)			< 2.5 (With the battery < 5 )	
Isolation transformer			No	
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	

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