

SPLIT PHASE HYBRID INVERTER

SE 5/6/8/10KHB-UL



EXCELLENT PERFORMANCE

- Maximum efficiency 98.0%, battery efficiency 94.5%
- Maximum 15kW PV input power, continuously 10% output overload
- Maximum Charge/Discharge current 210A
- Large MPPT current, compatible with high-power solar panels
- Advanced parallel function



HIGH RELIABILITY

- Key components from international famous brands
- IP65 protection rating, good adaptability to complex outdoor environment
- Multiple protections built-in, AFCI, RSD



INTELLIGENT MAINTENANCE

- Quick commission through APP, 7*24h remote monitoring, configuring, upgrading
- Advance energy management mechanism, multiple working modes built-in, and support flexible customized setting

Model	SE 5KHB-130-D2/UL	SE 6KHB-130-D2/UL	SE 8KHB-180-T2/UL	SE 10KHB-210-T2/UL
Efficiency				
Max. Efficiency (PV to AC)			98.0%	
Max. Efficiency (BAT to AC)			94.5%	
CEC Efficiency			97%	
Input (PV)				
Max. PV Input Power	7,500W	9,000W	12,000W	15,000W
Max. PV Voltage			600V	
Start-up Voltage			90V	
MPPT Voltage Range			70V-540V	
Max. Input Current	30A/22A			30A/22A/22A
Max. Short Circuit Current	40A/30A			40A/30A/30A
Nos. of MPPT	2			3
String per MPPT	2/2			2/2/2
Input/Output (BAT)				
Battery Type			Lithium-ion, Lead-acid	
Nominal Battery Voltage			48V	
Battery Voltage Range			40V-64V	
Max. Charge/Discharge Current	210A/130A	210A/130A	210A/180A	210A/210A
Max. Charge/Discharge Power	10,000W/5,000W	10,000W/6,000W	10,000W/8,000W	10,000W/10,000W
Output (Grid)				
Nominal AC Output Power	5,000W	6,000W	8,000W	10,000W
Max. AC Apparent Power	5,500VA	6,600VA	8,800VA	11,000VA
Max. AC Output Power (PF=1)	5,500W	6,600W	8,800W	11,000W
Max. AC Output Current	25A	30A	40A	50A
Rated Grid voltage		120/240V (Split Phase) / 230V (Single Phase) / 208V (2/3 Phase)		
Rated Grid frequency		60Hz		
Grid Frequency Range		55Hz-65Hz (Adjustable)		
Power Factor		> 0.99 @rated power (Adjustable 0.8 LD - 0.8 LG)		
THDI		<3% (Rated Power)		
Output (Back up)				
Nominal Output Power	5,000W	6,000W	8,000W	10,000W
Nominal Output Current	20.9A	25A	33.4A	41.7A
Peak Power (1s)	10,000VA	12,000VA	16,000VA	20,000VA
Nominal Output Voltage		120/240V (Split phase) / 230V (Single phase) / 208V (2/3 phase)		
Nominal Output Frequency		60Hz		
Transfer Time		10ms		
THDV		<3% @100% R Load		
Protection				
Protection Category			Class I	
DC Switch			Yes	
Anti-islanding Protection			Yes	
AC Over Current Protection			Yes	
AC Over Voltage Protection			Yes	
AC Short Circuit Protection			Yes	
DC Reverse Protection			Yes	
Surge Arrester			DC Type II, AC Type II	
Insulation Detection			Yes	
Leakage Current Protection			Yes	
AFCI			Yes	
RSD			Support (MLRSD Sunspec)	
General				
Max. Operation Altitude			2000m	
Protection Degree			IP65	
Operating Temperature Range			-25°C~60°C(>45°C derating)	
Relative Humidity			0~100%	
Cooling			Fan Cooling	
Mounting			Wall bracket	
Dimensions (W*H*D)			420mm*800mm*240mm	
Weight			37kg	
PV Connection			Terminals	
HMI & COM				
Display			LED+APP	
Communication Interface			RS485/CAN (for BMS), DRM/RS485 (for Meter), RS485 Optional: Wi-Fi/GPRS/LAN	
Certification				
Grid			UL1741SB, IEEE1547: 2018, HECO SRD 2.0	
Safety			UL 1741/CSA C22.2/UL 1699B	
EMC			FCC Part 15 Class B	
Warranty			5 Years/10 Years (Optional)	

- Remarks:**
- The range of output voltage and frequency may vary depending on different grid codes.
 - Specifications are subject to change without advanced noticed.