

# SINGLE PHASE HYBRID INVERTER

## SE 5/6/8/10KHB-UL



### FEATURES

- »» Maximum efficiency of 98.0% and CEC efficiency of 94.5%
- »» Maximum PV power of 15KW
- »» String current of 30A, compatible with high-power modules
- »» Advanced parallel up to 9Pcs
- »» 100% backup power available with split-phase out
- »» BMS management system to ensure longer battery life
- »» Compatible with both lead-acid and lithium battery energy storage systems
- »» Remote configuration and upgrade

Model	SE 5KHB-130-D2/UL	SE 6KHB-130-D2/UL	SE 8KHB-180-T2/UL	SE 10KHB-210-T2/UL
<b>Efficiency</b>				
Max. Efficiency (PV to AC)	98.0%			
Max. Efficiency (BAT to AC)	94.5%			
<b>Input (PV)</b>				
MAX PV Power	7500W	9000W	12000W	15000W
Max PV Voltage	600V			
Max Input Current (input A/input B)	30A/22A		30A/22A/22A	
Max Short Current (input A/input B)	40A/30A		40A/30A/30A	
Start Operating Voltage	90V			
MPPT Voltage Range	70V-540V			
No. of MPPT Trackers	2		3	
String per MPP Tracker	2			
<b>Input (BAT)</b>				
Compatible 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	10000W/5000W	10000W/6000W	10000W/8000W	10000W/10000W
Lithium battery Charge Curve	Self-adaptation to BMS			
<b>Output (Grid)</b>				
Nominal AC Output Power	5000W	6000W	8000W	10000W
Max. AC Output Apparent Power	5500VA	6600VA	8800VA	11000VA
Max. AC Output Power (PF=1)	5500W	6600W	8800W	11000W
Max. AC Output Current	25A	30A	40A	50A
Rated AC Voltage	120V/240V (Split phase) / 230V (Single phase) / 208V (2/3 phase)			
Rated Grid Frequency	60Hz			
AC Frequency Range	55Hz-65Hz (Adjustable)			
Grid Connection	Split phase			
Power Factor	> 0.99 @rated power (Adjustable 0.8 LD - 0.8 LG)			
THDI	<3% (Rated Power)			
<b>Output (Back up)</b>				
Nominal Output Power	5000W	6000W	8000W	10000W
Nominal Output Current	20.9A	25A	33.4A	41.7A
Maximum Power (1s)	10000VA	12000VA	16000VA	20000VA
Nominal Output Voltage	120V / 240V (Split phase) / 230V (Single phase) / 208V (2/3 phase)			
Nominal Output Frequency	60Hz			
Transfer Time	10ms (typ) / 20ms (max)			
THDV	<3% @100% R Load			
<b>Protection</b>				
Protection Category	Class I			
DC Switch	Support			
Anti-Islanding Protection	Support			
AC Overcurrent Protection	Support			
AC Short Circuit Protection	Support			
DC Reverse Connection	Support			
Surge Arrester	DC Type II, AC Type II			
Insulation Detection	Support			
Leakage Current Protection	Support			
PV Overvoltage Category	II			
AC Overvoltage Category	III			
AFCI	Y			
RSD	Y (MLRSD Sunspec or Tigo Transmitter)			
<b>General</b>				
Max. Operation Altitude	2000m			
Noise Emission	<40dB			
Ingress Protection Degree	IP65			
Operating Temperature Range	-25°C~60°C			
Relative Humidity	0~100%			
Cooling Concept	Fan Cooling			
Mounting	Wall bracket			
Dimensions (W*H*D)	420mm*800mm*240mm			
Weight	37Kg			
PV Connection	Terminals			
BAT Connection	DC special connector			
<b>HMI &amp; COM</b>				
Display	LED+APP			
Communication Interface	RS485/CAN (for BMS), RS485, USB, DRM/RS485 (for Meter), Optional: WiFi/GPRS/Ethernet			
<b>Certification</b>				
Grid	UL1741SB, IEEE1547: 2018, HECO SRD 2.0			
Safety	UL 1741 / CSA C22.2 / UL 1699B			
EMC	FCC Part 15 Class B			
<b>Warranty</b>	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 notice.