



Hybrid Solar Inverter

Energy Storage Inverter

SE 5KHB-UL

SE 6KHB-UL

SE 8KHB-UL

SE 10KHB-UL

- Max efficiency 98.0%, CEC efficiency 94.5%
- Spilt phase out available for 100% back up power
- Max. PV Power 15KW
- Configure BMS management system to ensure high battery life
- String current 22A, compatible with high power modules
- Compatible with lead-acid batteries and lithium battery energy storage systems
- Advanced parallel, up to 9Pcs
- Remote configuration and upgrade

Model	SE 5KHB-130/UL	SE 6KHB-130/UL	SE 8KHB-180/UL	SE 10KHB-210/UL
Efficiency				
Max. efficiency (PV to AC)				98.0%
Max. efficiency (BAT to AC)				94.5%
Input (PV)				
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 (V)				90V
MPPT voltage range				70V-550V
No. of MPPT trackers	2			3
String per MPP tracker				2
Input (BAT)				
Compatible battery type	Lithium-ion/Lead-acid			
Nominal battery voltage	48V			
Battery voltage range	40V-60V			
Max. charge/discharge current	130A/130A	130A/130A	180A/180A	210A/210A
Max. charge/discharge power	5000W/5000W	6000W/6000W	8000W/8000W	10000W/10000W
Lithium battery charge curve	Self-adaption to BMS			
Output (Grid)				
Nominal AC output power	5000W	6000W	8000W	10000W
Max. AC output apparent power	5500VA	6600VA	8800VA	10000VA
Max. AC output power (PF=1)	5500W	6600W	8800W	10000W
Max. AC output current	22.9A	27.5A	36.6A	45.4A
Rated AC voltage	120V/240V (Split phase) / 230V (Single phase) / 208V (2/3 phase)			
AC voltage range	150V-300V (Adjustable for 240V system)			
Rated grid frequency	60Hz			
AC 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 voltage	120V/240V (Split phase) / 230V (Single phase) / 208V (2/3 phase)			
Nominal output frequency	60Hz			
Nominal output power	5000W	6000W	8000W	10000W
Nominal output current	22.7A	27.2A	36.3A	45.4A
Transfer time	10ms (typ) / 20ms (max)			
THDV	<3% @100% R Load			
Protection				
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)			
General				
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*230mm			
Weight	35Kg			
PV connection	Terminals			
BAT connection	DC special connector			
HMI & COM				
Display	LED+APP			
Communication interface	RS485/CAN (for BMS), RS485, USB, DRM/RS485 (for Meter), Optional: WiFi/GPRS/Ethernet			
Certification				
Grid	UL1741SB, IEE1547: 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 upon different grid codes. Specifications are subject to change without advance notice.