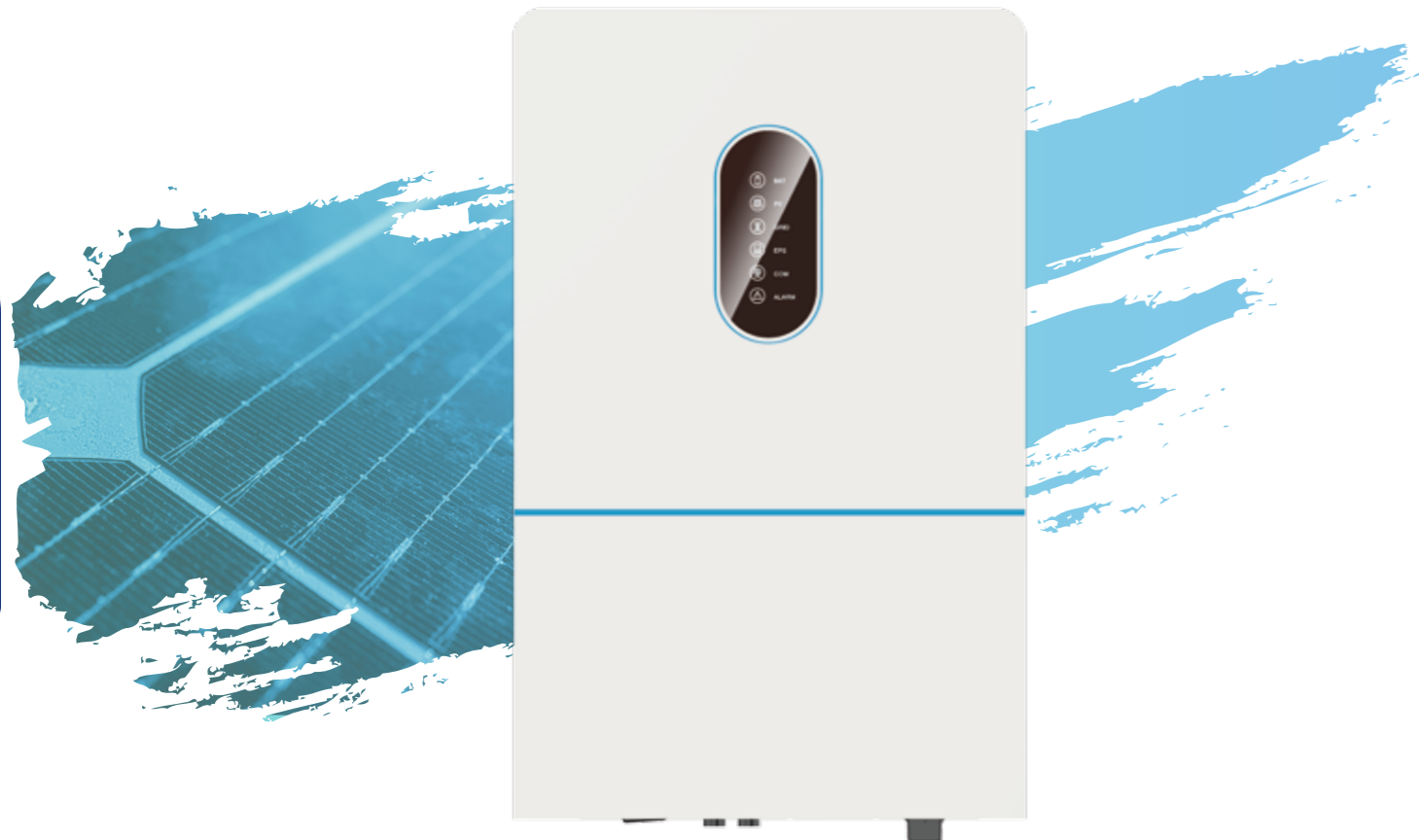


# SINGLE PHASE HYBRID INVERTER

## SE 6/8/10KHB-220/UL

Energy Storage Inverter



### FEATURES

- »» Max efficiency 98.0%, CEC efficiency 97.5%
- »» Max. PV Power 15000W
- »» String current 22A, compatible with high power modules
- »» Compatible with lead-acid batteries and lithium battery energy storage systems
- »» Split phase out available for 100% back up power
- »» Advanced parallel, up to 9Pcs
- »» Remote configuration and upgrade

Model	SE 6KHB-130/UL	SE 8KHB-180/UL	SE 10KHB-200/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 (W)	9000	12000	15000
Max PV voltage (V)		600	
Max input current (input A/input B) (A)	30/20		30/20/20
Max short current (input A/input B) (A)	40/30		40/30/30
Start operating voltage (V)		90	
MPPT voltage range @full load (V)		70-550	
No. of MPPT trackers	2	3	3
String per MPP tracker		2	
<b>Input (BAT)</b>			
Compatible battery type		Lithium-ion/Lead-acid	
Nominal battery voltage (V)		48	
Battery voltage range (V)		40-60	
Max. charge/discharge current (A)	130/130	180/180	210/210
Max. charge/discharge power (W)	6000/6000	8000/8000	10000/10000
Lithium battery charge curve		Self-adaption to BMS	
<b>Output (Grid)</b>			
Nominal AC output power (W)	6000	8000	10000
Max. AC output apparent power (VA)	6600	8800	10000
Max. AC output power (PF=1) (W)	6600	8800	10000
Max. AC output current (A)	27.5	36.6	45.4
Rated AC voltage (V)		120/240V (Split phase) / 230V (Single phase) / 208V (2/3 phase)	
AC voltage range (V)		150-300 (adjustable for 240V system)	
Rated grid frequency (Hz)		60	
AC frequency range (Hz)		55-65 (adjustable)	
Power factor		> 0.99 @rated power (adjustable 0.8 LG - 0.8 LD)	
THDI		<3%	
<b>Output (Back up)</b>			
Nominal output voltage (V)		120/240V (Split phase) / 230V (Single phase) / 208V (2/3 phase)	
Nominal output frequency (Hz)		60	
Nominal output power (W)	6000	8000	10000
Nominal output current (A)	27.2	27.2	45.4
Transfer time (ms)		10 (typ) / 20 (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 (m)		4000	
Noise emission (dB)(Typical)		<40	
Ingress protection degree		IP65	
Operating temperature range (°C)		-25~60	
Relative humidity (%)		0~100	
Cooling concept		Fan Cooling	
Mounting		Wall bracket	
Dimensions (W*H*D)		420mm*600mm*175mm	
Weight (kg)	25		30
<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		IEEE 1547	
Safety		UL 1741/CSA C22.2/UL 1699B	
Warranty (years)		5/10 (optional)	

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