

THREE PHASE HYBRID INVERTER

SE 5/6/8/10K HB-T

Energy Storage Inverter



HIGH YIELD

- Max efficiency 98.4%, Battery efficiency 98%
- Max. Charge/Discharge Current 50A
- Reasonable energy control to increase the proportion of spontaneous use



HIGH RELIABILITY

- With BMS system to ensure high battery life
- Natural cooling design



INTELLIGENT MAINTENANCE

- Compatible with lead-acid batteries and lithium battery energy storage systems
- Remote configuration and upgrade

Model	SE 5K HB-T	SE 6K HB-T	SE 8K HB-T	SE 10K HB-T
Efficiency				
Max. efficiency (PV to AC)	98.2%	98.2%	98.4%	98.4%
Eur. efficiency (PV to AC)	97.2%	97.2%	97.9%	97.9%
Max. efficiency (BAT)	98.0%			
Input (PV)				
MAX PV Power (W)	8000	9000	12000	15000
Max PV voltage (V)	1000			
Max input current (input A/input B) (A)	15/22	15/22	30/22	30/22
Max short current (input A/input B) (A)	20/30		40/30	
MPPT voltage range (V)	160-950			
No. of MPPT trackers	2			
String per MPP tracker	1+1		2+1	
Input (BAT)				
Compatible battery type	Lithium-ion/Lead-acid			
Nominal battery voltage (V)	200-600			
Battery voltage range (V)	150-600			
Max. charge/discharge current (A)	25/25	25/25	2*25/2*25	2*25/2*25
Max. charge/discharge power (W)	8000/5200	9000/6300	12000/10500	15000/10500
Lithium battery charge curve	Self-adaption to BMS			
Output (Grid)				
Nominal AC output power (W)	5000	6000	8000	10000
Max. AC output apparent power (VA)	5500	6600	8800	10000
Max. AC output power (PF=1) (W)	5500	6600	8800	10000
Max. AC output current (A)	3*8.3	3*10	3*13.3	3*15.2
Rated AC voltage (V)	380/400			
AC voltage range (V)	277-520 (adjustable)			
Rated grid frequency (Hz)	50/60			
AC frequency range (Hz)	45-55/55-65 (adjustable)			
Grid connection	Three phase			
Power factor	>0.99 @rated power (adjustable 0.8 LG - 0.8 LD)			
THDI	<3%			
Output (Back up)				
Nominal output voltage (V)	380/400V			
Nominal output frequency (Hz)	50/60			
Nominal output power (W)	5000	6000	8000	10000
Nominal output current (A)	3*7.6	3*9.1	3*12.2	3*15.2
Transfer time (ms)	10 (typ) / 20 (max)			
THDV	<3 (R Load), 5 (RCD Load)			
Protection				
Anti-islanding protection	Support			
AC overcurrent protection	Support			
AC short circuit protection	Support			
AC over-voltage protection	Support			
Surge Arrester	DC Type2, AC Type2			
Insulation detection	Support			
GFCI	Support			
AFCI	Optional			
RSD	Optional			
General				
Max. operation altitude (m)	4000			
Noise emission (dB)	30			
Ingress protection degree	IP65			
Operating temperature range (°C)	-25~45			
Relative humidity (%)	0~100			
Cooling concept	Natural Cooling			
Mounting	Wall bracket			
Dimensions (W*H*D)	450mm*550mm*175mm			
Weight (kg)	20			25
PV connection way	MC4 / H4			
Battery connection way	Dedicated DC connector			
HMI & COM				
Display	LED+APP (Bluetooth)			
Communication interface	BMS (CAN/RS485), WiFi/GPRS/4G/Ethernet (optional), DI (DRM/RCR) / Meter (RS485), 1*DO, USB (Firmware upgrade)			
Certification				
Grid	IEC 61727, IEC 62116, EN 50549-1, VDE 4105, AS 4777, CEI 0-21, G98			
Safety	IEC62109-1&2, IEC62040-1, IEC62477-1			
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.