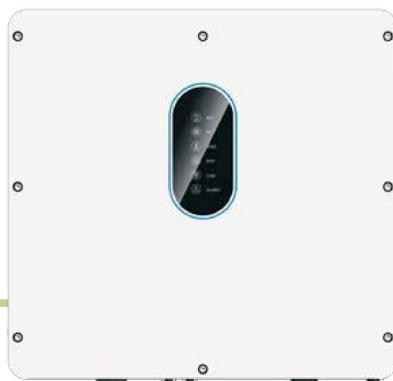


SINGLE PHASE HYBRID INVERTER

SE 3.6KHB-60, SE 4.6/5/6KHB-120



HIGH YIELD

- Maximum efficiency of 97.3% and battery efficiency of 94.3%
- Maximum charge/discharge current of 120A
- Reasonable energy control to increase spontaneous usage proportion



HIGH RELIABILITY

- BMS system to ensure longer battery life
- Natural cooling design



INTELLIGENT MAINTENANCE

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

Model	SE 3K6HB-60	SE 4K6HB-120	SE 5KHB-120	SE 6KHB-120
Efficiency				
Max. Efficiency (PV to AC)			97.3%	
Max. Efficiency (BAT to AC)			94.3%	
Input (PV)				
MAX PV Power	6300W			9000W
Max PV Voltage		550V		
Max Input Current (input A/input B)		15A/15A		
Max Short Current (input A/input B)		20A/20A		
Start Operating Voltage		90V		
MPPV Voltage Range		70V-540V		
No.of MPPT Trackers		2		
String Per MPP Tracker		1		
Input (BAT)				
Compatible Battery Type			Lithium-ion / Lead-acid	
Nominal Battery Voltage			48V	
Battery Voltage Range			40V-65V	
Max. Charge/discharge Current	60A/60A			
Max. Charge/discharge Power	3000W/3000W			
Lithium Battery Charge Curve			Self-adaption to BMS	
Output (Grid)				
Nominal AC Output Power	3600W		5000W	
Max. AC Output Apparent Power	3600VA		5500VA	
Max. AC Output (PF=1)	3600W		5500W	
Max. AC Output Current	16A		25A	
Rated AC Voltage			230V, L+N+PE	
AC Voltage Range			150V-300V(Adjustable)	
Rated Grid Frequency			50Hz / 60Hz	
AC Frequency Range			45Hz-55Hz/55Hz-65Hz (Adjustable)	
Grid Connection			Single phase	
Power Factor			> 0.99 @ rated power (Adjustable 0.8 LD - 0.8 LG)	
THDI			<3% (Rated Power)	
Output (Back up)				
Nominal Output Power	3000W		5000W	
Nominal Output Current	13A		21.7A	
Maximum Power (1s)	6000VA		10000VA	
Nominal Output Voltage			230V, L+N+PE	
Nominal Output Frequency			50Hz / 60Hz	
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 III, AC Type III	
Insulation Detection			Support	
Leakage Current Protection			Support	
PV Overvoltage Category			II	
AC Overvoltage Category			III	
Gen			Optional	
General				
Max. Operation Altitude			4000m	
Noise Emission			<35dB	
Ingress Protection Degree			IP65	
Operating Temperature Range			-25°C-60°C	
Relative Humidity			0-100%	
Cooling Concept			Natural Cooling	
Mounting			Wall bracket	
Dimensions (W*H*D)			515mm*485mm*175mm	
Weight	20Kg		25Kg	
PV Connection Way			MC4/H4	
Battery Connection Way			Dedicated DC connector	
AC Connection Way (grid & back up)			Dedicated AC connector	
HMI & COM				
Display			LED+APP	
Communication Interface			RS485/CAN (for BMS), RS485, USB, DRM/RS485 (for Meter), Optional: WiFi/GPRS/LAN	
Certification				
Grid			VDE-AR-N4105, IEC 61727/62116, AS 4777.2, EN 50549-1, C10/11, G99, CEI 0-21, NRS 097-2-1, RD 1699/661/413	
Safety			IEC62109-1&2, IEC62477-1	
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.