

SINGLE PHASE HYBRID INVERTER

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



EXCELLENT PERFORMANCE

- Maximum efficiency 97.3%, battery efficiency 94.3%
- Maximum 9kW PV input power
- Maximum Charge/Discharge current 120A
- Large MPPT current, compatible with high-power solar panels
- Advanced parallel function



HIGH RELIABILITY

- Key components from international famous brands
- IP65 protection rating, good adaptability to complex outdoor environment
- Multiple protections built-in, optional Type II SPD



INTELLIGENT MAINTENANCE

- Quick commission through APP, 7*24h remote monitoring, configuring, upgrading
- Advance energy management mechanism, multiple working modes built-in, and support flexible customized setting
- Optional generator and smart load function

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%	
Euro. Efficiency (PV-AC)			96.8%	
Input (PV)				
Max. PV Input Power	6,300W		9,000W	
Max. PV Voltage			550V	
Start-up Voltage			90V	
MPPT Voltage Range			70V-540V	
Max. Input Current			15A/15A	
Max. Short Circuit Current			20A/20A	
Nos. of MPPT			2	
String per MPPT			1/1	
Input/Output (BAT)				
Battery type			Lithium-ion, Lead-acid	
Nominal Battery Voltage			48V	
Battery Voltage Range			40V-65V	
Max. charge/Discharge Current	60A/60A	120A/120A	120A/120A	120A/120A
Max. Charge/Discharge Power	3,000W/3,000W	6,000W/6,000W	6,000W/6,000W	6,000W/6,000W
Output (Grid)				
Nominal AC Output Power	3,600W	4,600W	5,000W	6,000W
Max. AC Apparent Power	3,960VA	4,600VA	5,500VA	6,000VA
Max.AC Output Power (PF=1)	39,60W	4,600W	5,500W	6,000W
Max. AC Output Current	18A	22A	25A	27.2A
Nominal Grid voltage			220V/230V/240V, L+N+PE	
Grid Voltage Range			150V-300V (Adjustable)	
Nominal Grid Frequency			50Hz/60Hz	
Grid Frequency Range			45Hz-55Hz/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 Power	3,000W	4,600W	5,000W	6,000W
Nominal Output Current	13A	20A	21.7A	26A
Peak Power(>1s)	4,500VA	6,900VA	7,500VA	9,000VA
Nominal Output Voltage			220V/230V/240V, L+N+PE	
Nominal Output Frequency			50Hz/60Hz	
Transfer Time			<10ms	
THDV			<3% @100% R Load	
Protection				
Protection Category			Class I	
DC switch			Yes	
Anti-islanding Protection			Yes	
AC Over Current Protection			Yes	
AC Over Voltage Protection			Yes	
AC Short Circuit Protection			Yes	
DC Reverse Protection			Yes	
Surge Arrester			DC Type III, AC Type III	
PV Insulation Detection			Yes	
Leakage Current Protection			Yes	
General				
Max. Operation Altitude			4000m (>2000m derating)	
Protection Degree			IP65	
Operating Temperature Range			-25°C~60°C (>45°C derating)	
Relative Humidity			0~100%	
Cooling			Natural Cooling	
Mounting			Wall bracket	
Dimensions (W*H*D)			570mm*495mm*175mm	
Weight	20Kg		25Kg	
PV Connection			MC4/H4	
Battery Connection			Dedicated DC connector	
AC Connection			Dedicated AC connector	
HMI & COM				
Display			LED+APP	
Communication Interface			RS485/CAN (for BMS), RS485, USB, DRM/RS485 (for Meter), Optional: Wi-Fi/GPRS/LAN	
Certification				
Grid	VDE-AR-N4105, IEC 61727/62116, AS 4777.2, EN 50549.1, C10/11, G99/G100, CEI 0-21, NRS 097-2-1, RD 1699/661/413			
Safety	IEC 62109-1&2, IEC 62477-1			
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.