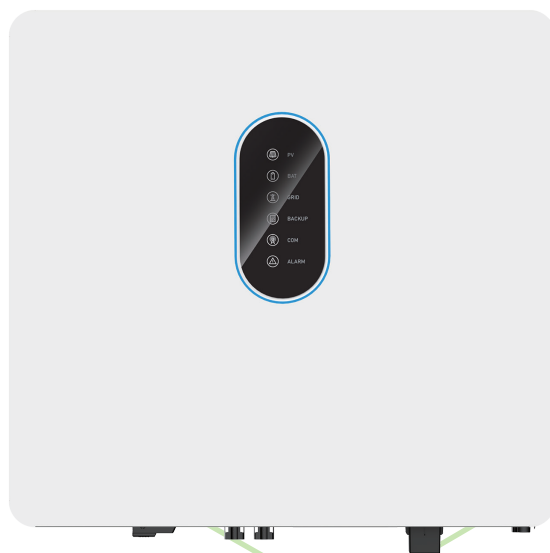


# SINGLE PHASE HYBRID INVERTER

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



## EXCELLENT PERFORMANCE

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



## HIGH RELIABILITY

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



## INTELLIGENT MAINTENANCE

- Quick commission via mobile app, 24/7 remote monitoring, configuration and upgrade
- Advanced energy management mechanism, with multiple built-in working modes and flexible customized settings
- Optional generator and smart load functions



Model	SE 3K6HB-60	SE 4K6HB-120	SE 5KHB-120	SE 6KHB-120
<b>Efficiency</b>				
Max. Efficiency (PV to AC)	97.3%			
Eur. Efficiency (PV to AC)	96.8%			
Max. Efficiency (BAT to AC)	94.3%			
<b>Input (PV)</b>				
Max. PV Configuration	200%			
Max. PV Input Power	6,300W		9,000W	
Max. PV Voltage	550V			
Start-up Voltage	90V			
MPPT Operating Voltage Range	70V-540V			
Max. Input Current per MPPT	15A/15A			
Max. Short Circuit Current per MPPT	20A/20A			
String per MPPT	2 (1/1)			
Nos. of MPPT	2			
<b>Input/Output (BAT)</b>				
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
<b>Output (Grid)</b>				
Nominal AC Output Power	3,600W	4,600W	5,000W	6,000W
Max. AC Output Apparent Power	3,960VA	4,600VA	5,500VA	6,000VA
Max.AC Output Power (PF=1)	3,960W	4,600W	5,500W	6,000W
Max. AC Output Current	18A	22A	25A	27.2A
Nominal Grid Voltage	Single Phase 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)			
<b>Output (Back up)</b>				
Nominal Output Power	3,000W	4,600W	5,000W	6,000W
Nominal Output Current	13.1A	20A	21.7A	26.1A
Peak Output Apparent Power (>1s)	4,500VA	6,900VA	7,500VA	9,000VA
Nominal Output Voltage	Single Phase 220V/230V/240V, L+N+PE			
Nominal Output Frequency	50Hz/60Hz			
Transfer Time	<10ms (typical)			
THDV	<3% @100% R Load			
<b>Protection</b>				
Protection Category	Class I			
DC Switch	Yes			
Anti-islanding Protection	Yes			
AC Overcurrent Protection	Yes			
DC/AC Overvoltage Protection	DC Type II, AC Type III			
AC Short Circuit Protection	Yes			
DC Reverse Protection	Yes			
Surge Arrester	DC Type III, AC Type III (optional Type II)			
Insulation Resistance Detection	Yes			
Leakage Current Protection	Yes			
Generator	Optional			
<b>General</b>				
Max. Operating Altitude	4000m (>2000m derating)			
Ingress Protection Rating	IP65			
Operating Temperature Range	-25 C ~60 C (>45 C derating)			
Relative Humidity	0~100%			
Cooling Method	Natural Cooling			
Mounting	Wall bracket			
Dimensions (W*H*D)	515mm*487mm*175mm			
Weight	16Kg		25Kg	
PV Connection Way	MC4/H4			
Battery Connection Way	Dedicated DC connector			
AC Connection Way (Grid & Back up)	Dedicated AC connector			
<b>HMI &amp; COM</b>				
Display	Bluetooth & APP + LED, LCD (Optional)			
Communication Interface	RS485/CAN (for BMS), RS485, Ethernet, DRM/RS485 (for Meter), Optional: Wi-Fi/LAN			
<b>Certification</b>				
Safety	IEC 62109-1&2, IEC62040-1, IEC 62477-1			
Grid	VDE 4105, IEC 61727/62116, AS 4777.2, EN 50549-1, C10/11, G98/G99/G100, CEI 0-21, NRS 097-2-1, RD 1699/661/647/413, UNE 217002			
<b>Warranty</b>				
5 Years				

Remarks: · The range of output voltage and frequency may vary depending on different grid codes.  
· Specifications are subject to change without advanced notice.

