

# SINGLE PHASE HYBRID INVERTER

## SE 3/3.6/4.6/5/6KHB-HV



### EXCELLENT PERFORMANCE

- Maximum efficiency 97.8%, battery efficiency 97.0%
- Maximum 12kW PV input power
- Maximum Charge/Discharge current 30A
- Large MPPT current, compatible with high-power solar panels
- Support full-house loads on backup port, maximum 12kW



### HIGH RELIABILITY

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

Model	SE 3KHB-HV	SE 3.6KHB-HV	SE 4.6KHB-HV	SE 5KHB-HV	SE 6KHB-HV
<b>Efficiency</b>					
Max. Efficiency (PV to AC)			97.8%		
Max. Efficiency (BAT to AC)			97.0%		
Euro. Efficiency (PV to Grid)			97.5%		
<b>Input (PV)</b>					
Max. PV Input Power			12,000W		
Max. PV Voltage			550V		
Start-up Voltage			90V		
MPPT Voltage Range			70V-540V		
Max. Input Current			16A/16A		
Max. Short Circuit Current			20A/20A		
Nos. of MPPT			2		
String per MPPT			1/1		
<b>Input/Output (BAT)</b>					
Battery Type	LLithium-ion, Lead-acid				
Battery Voltage Range	80-480 V				
Max. Charge/Discharge Current	30A/30A				
Max. Charge/Discharge Power	6,000W/3,960W	6,000W/3,960W	6,000W/6,600W	6,000W/6,600W	6,000W/6,600W
<b>Output (Grid)</b>					
Nominal AC Output Power	3,000W	3,600W	4,600W	5,000W	6,000W
Max. AC Apparent Power	3,300VA	3,960VA	4,600VA	5,500VA	6,600VA
Max. AC Output Power (PF=1)	3,300W	3,960W	4,600W	5,500W	6,600W
Max. AC Output Current	15.0A	18.0A	21.0A	25.0A	28.7A
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)				
<b>Output (Back up)</b>					
Nominal Output Power	3,000W	3,600W	4,600W	5,000W	6,000W
Nominal Output Current	13.6/13.0/12.5A	16.4/15.7/15.0A	20.9/20.0/19.2A	22.7/21.7/20.8A	27.3/26.1/25.0A
Peak Power(1min)	3,600VA	4,320VA	5,520VA	6,000VA	7,200VA
Peak Power(5s)	4,500VA	5,400VA	6,900VA	7,500VA	9,000VA
Nominal Output Voltage	220V/230V/240V, L+N+PE				
Nominal Output Frequency	50/60Hz				
Transfer Time	<10ms				
THDV	<3% @100% R Load				
<b>Protection</b>					
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				
AFCI	Optional				
RSD	Optional				
<b>General</b>					
Max. Operation Altitude	4000m (>2000m derating)				
Protection Degree	IP66				
Operating Temperature Range	-25~60°C (>45°C derating)				
Relative Humidity	0~100%				
Cooling	Natural Cooling				
Mounting	Wall bracket				
Dimensions (W*H*D)	491mm*348mm*170mm				
Weight	16Kg				
<b>HMI &amp; COM</b>					
Display	LED+APP				
Communication interface	RS485/CAN (for BMS), RS485, DRM/RS485 (for Meter), Optional: Wi-Fi/GPRS/LAN				
<b>Certification</b>					
Grid	IEC 61727& 62116, EN 50549-1, VDE 4105, AS 4777, CEI 0-21, G98, G99, RD1699, C10/11, NRS097				
Safety	IEC 62109-1/2, IEC 62477				
EMC	IEC/EN 61000-6-3, IEC 61000-3-11, IEC 61000-3-12				
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 notice.