

SINGLE PHASE HYBRID INVERTER

SE 8/10KHB-EU



EXCELLENT PERFORMANCE

- Maximum efficiency 98.0%, battery efficiency 94.5%
- Maximum 15kW PV input power, continuously 10% output overload
- Maximum Charge/Discharge current 210A
- 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 AFCI, RSD



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 8KHB-180-T/EU	SE 10KHB-210-T/EU
Efficiency		
Max. Efficiency (PV to AC)	98.0%	
Max. Efficiency (BAT to AC)	94.5%	
Input (PV)		
Max. PV Input Power	12,000W	15,000W
Max. PV Voltage	600V	
Start-up Voltage	90V	
MPPT Voltage Range	70V-540V	
Max. Input Current	30A/22A/22A	
Max. Short Circuit Current	40A/30A/30A	
Nos. of MPPT	3	
String per MPPT	2/2/2	
Input/Output (BAT)		
Battery Type	Lithium-ion, Lead-acid	
Nominal Battery Voltage	48V	
Battery Voltage Range	40V-64V	
Max. Charge/Discharge Current	210A/180A	210A/210A
Max. Charge/Discharge Power	10,000W/8,000W	10,000W/10,000W
Output (Grid)		
Nominal AC Output Power	8,000W	10,000W
Max. AC Apparent Power	8,800VA	11,000VA
Max. AC Output Power (PF=1)	8,800W	11,000W
Max. AC Output Current	40A	50A
Rated Grid voltage	220V/230/240V, L+N+PE	
Grid Voltage Range	150V-300V (Adjustable)	
Rated 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	8,000W	10,000W
Nominal Output Current	34.8A	43.5A
Peak Power (1s)	16,000VA	20,000VA
Nominal Output Voltage	220V/230/240V, 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 II, AC Type II	
PV Insulation Detection	Yes	
Leakage Current Protection	Yes	
AFCI	Optional	
RSD	Optional	
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	Fan Cooling	
Mounting	Wall bracket	
Dimensions (W*H*D)	420mm*800mm*240mm	
Weight	37Kg	
PV Connection	Terminals	
HMI & COM		
Display	LED+APP, LCD (Optional)	
Communication Interface	RS485/CAN (for BMS), DRM/RS485 (for Meter), RS485 Optional: Wi-Fi/GPRS/LAN	
Certification		
Grid	IEC 61727/62116, AS 4777.2, NRS 097-2-1	
Safety	IEC 62109-1&2	
EMC	EN 61000	
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.