

SINGLE PHASE HYBRID INVERTER

SE 8/10KHB-T/EU

Application: Residential Use



MAXIMIZE PV INPUT POWER

- Up to 200% oversizing allowed with 3 MPPTs
- Support high power module with 30A PV input current
- Support AC coupled solar input



VERSATILE APPLICATIONS

- Stackable up to 9 units
- Standby generator connection for whole-home back up
- Four application modes
- Remote configuration and upgrade



FLEXIBLE BATTERY CONFIGURATION

- Support 40-64V Lithium or Lead-acid battery
- Maximum battery charge/discharge current of 210A



STABLE OUTPUT POWER

- Continuous 110% of nominal AC power
- Seamless backup transition (<10ms)



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 Operating Voltage Range	70V-540V	
Max. Input Current per MPPT	30A/22A/22A	
Max. Short Circuit Current per MPPT	40A/30A/30A	
String per MPPT	2/2/2	
Nos. of MPPT	3	
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 Output Apparent Power	8,800VA	11,000VA
Max. AC Output Power (PF=1)	8,800W	11,000W
Max. AC Output Current	40A	50A
Nominal Grid Voltage	220V/230/240V, 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	8,000W	10,000W
Nominal Output Current	34.8A	43.5A
Peak Output Apparent Power (1s)	16,000VA	20,000VA
Nominal Output Voltage	220V/230/240V, L+N+PE	
Nominal Output Frequency	50Hz/60Hz	
Transfer Time	<10ms (typical)	
THDV	<3% @100% R Load	
Protection		
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 II, AC Type II	
Insulation Resistance Detection	Yes	
Leakage Current Protection	Yes	
Generator	Yes	
General		
Max. Operation Altitude	4000m (>2000m derating)	
Ingress Protection Degree	IP66	
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	39Kg	
PV Connection Way	Terminals	
HMI & COM		
Display	Bluetooth & APP + LED, LCD (optional)	
Communication Interface	CAN (for BMS), DRM/RS485 (for Meter), RS485, Optional: Wi-Fi/LAN	
Certification		
Safety	IEC 62109-1&2	
Grid	IEC 61727/62116, AS 4777.2, NRS 097-2-1	
Warranty	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.