

## SE 8/10/12KHB-T/ECO

Application: Residential Use



### Excellent Performance

- Up to 150% usable PV power with 3 MPPTS
- Max battery charge/discharge current of 210A
- Continuous 110% of nominal AC power



### High Flexibility

- Support 40-64V Lithium or Lead-acid battery
- Max. 9 units parallel for on-grid and off-grid operation
- Support smart load/generator/AC Coupling
- 3 inverters in parallel for three phase



### Safety & Reliability

- IP65: Indoor or outdoor installation
- Seamless transition to backup mode, for protection against power outages
- Multiple built-in protections

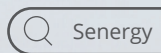


### Intelligent Maintenance

- 4.3" LCD color touchscreen, easy to operate
- Intelligent Management, local & remote monitoring
- 3 application modes, mixed with battery scheduling



SINGLE  
PHASE  
& LV  
BATTERY



	SE 8KHB-180-T/ECO	SE 10KHB-210-T/ECO	SE 12KHB-210-T/ECO
<b>Efficiency</b>			
Max. Efficiency (PV to AC)	98.00%		
<b>Input (PV)</b>			
Max. PV Usable Power	12,000W	15,000W	15,000W
Max. PV Voltage	600V		
Start-up Voltage	90V		
MPPT Operating Voltage Range	70V-540V		
Max. Input Current per MPPT	20A/20A/20A		
Max. Short Circuit Current per MPPT	30A/30A/30A		
String per MPPT	1/1/1		
Nos. of MPPT	3		
<b>Input/Output (BAT)</b>			
Battery Type	Lithium-ion/Lead-acid		
Nominal Battery Voltage	48V		
Battery Voltage Range	40V-64V		
Max. Charge/Discharge Current	210A/180A	210A/210A	210A/210A
Max. Charge/Discharge Power	10,000W/8,000W	10,000W/10,000W	10,000W/10,000W
<b>Output (Grid)</b>			
Nominal AC Output Power	8,000W	10,000W	12,000W
Max. AC Output Apparent Power	8,800VA	11,000VA	12,000VA
Max. AC Output Power (PF=1)	8,800W	11,000W	12,000W
Nominal AC Output Current	34.8A	43.5A	52.2A
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)		
<b>Output (Back Up)</b>			
Nominal Output Power	8,000W	10,000W	12,000W
Nominal Output Current	34.8A	43.5A	52.2A
Peak Output Apparent Power (1s)	16,000VA	20,000VA	20,000VA
Nominal Output Voltage	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 II, AC Type II		
Insulation Resistance Detection	Yes		
Leakage Current Protection	Yes		
Generator	Yes		
<b>General</b>			
Max. Operation Altitude	4,000m (>2,000m derating)		
Ingress Protection Degree	IP65		
Operating Temperature Range	-25°C~60°C (>45°C derating)		
Relative Humidity	0~100%		
Cooling Method	Smart Cooling		
Mounting	Wall bracket		
Dimensions (W*H*D)	440mm*725mm*251.5mm		
Weight	39kg		
<b>HMI &amp; COM</b>			
Display	4.3 Inch Touch LCD		
Communication Interface	CAN (for BMS), DRM/RS485 (for Meter), RS485, Optional: Wi-Fi/LAN		
<b>Certification</b>			
Safety	EN IEC 62109-1&2		
EMC	EN IEC 61000		
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.

