

SE 8KHB-D1/LV-ECO-II, SE 10/12KHB-T1/LV-ECO-II

Application: Residential Use



Excellent Performance

- 200% PV oversizing, 160% PV usable power
- 3 MPPTs with 6 PV Strings, 20A Max. Input Current per String
- Max. battery charge/discharge current of 250A
- Max. grid passthrough current of 68.2A



Highly Flexible

- Support 40-60V Lithium or Lead-acid battery
- Support generator/smart load/AC coupling
- Max. 9 units parallel for on-grid and off-grid operation
- 3 inverters in parallel for three phase



Safe & Reliable

- IP66: Indoor or outdoor installation
- Seamless transition to backup mode, for protection against power outages
- Arc-fault circuit interruption (AFCI) 2.0 optional



Intelligent Maintenance

- 4.3" LCD color touchscreen, easy to operate
- 6 time periods for battery charging/discharging
- Built-in WiFi, supporting remote monitoring and upgrade



SINGLE
PHASE
& LV
BATTERY



	SE 8KHB-D1/LV-ECO-II	SE 10KHB-T1/LV-ECO-II	SE 12KHB-T1/LV-ECO-II
Efficiency			
Max. Efficiency	97.6%		
Input (PV)			
Max. PV Access Power	16,000W	20,000W	24,000W
Max. PV Usable Power	12,800W	16,000W	19,200W
Max. PV Input Voltage		500V	
Start-up Voltage		90V	
MPPT Voltage Range		70V-450V	
Max. Input Current per MPPT	2*20A/2*20A	2*20A/2*20A/2*20A	2*20A/2*20A/2*20A
Max. Short Circuit Current per MPPT	2*25A/2*25A	2*25A/2*25A/2*25A	2*25A/2*25A/2*25A
No. of MPP Trackers	2	3	3
No. of Strings per MPP Tracker	2/2	2/2/2	2/2/2
Input/Output (BAT)			
Battery Type	Lithium-ion/Lead-acid		
Nominal Battery Voltage		48V	
Battery Voltage Range		40V-60V	
Max. Charge/Discharge Current	190A/190A	220A/220A	250A/250A
Input/Output (Grid)			
Nominal AC Output Power	8,000W	10,000W	12,000W
Max. AC Output Apparent Power	8,800VA	11,000VA	13,200VA
Nominal AC Output Current	36.4A/34.8A/33.3A	45.5A/43.5A/41.7A	54.5A/52.2A/50.0A
Max. AC Output Current	40A	50A	60A
Max. Grid Passthrough Current (grid to load)		68.2A	
Nominal Voltage		220V/230V/240V, L+N+PE	
Nominal Frequency		50Hz/60Hz	
Power Factor		> 0.99 @rated power (Adjustable 0.8 LD - 0.8 LG)	
THDI		< 3% @ R Load	
Output (Back up)			
Nominal AC Output Power	8,000W	10,000W	12,000W
Max. AC Output Apparent Power	8,800VA	11,000VA	13,200VA
Nominal AC Output Current	36.4A/34.8A/33.3A	45.5A/43.5A/41.7A	54.5A/52.2A/50A
Max. AC Output Current	40A	50A	60A
Peak Output Apparent Power		200% @10s	
Nominal Voltage		220V/230V/240V, L+N+PE	
Nominal Frequency		50Hz/60Hz	
Transfer Time		< 10ms (Typical)	
THDV		< 3% @ R Load	
Protection			
Protection Category		Class I	
PV Switch		Optional	
Anti-islanding Protection		Yes	
Overcurrent Protection		Yes	
Overvoltage Protection		Yes	
AC Short Circuit Protection		Yes	
PV Reverse Polarity Protection		Yes	
Surge Protection		Type III	
General			
Max. Operation Altitude		4,000m (>2,000m derating)	
Operating Temperature Range		-25°C~60°C	
Relative Humidity		0~100%	
Ingress Protection Degree		IP66	
Cooling Method		Smart Cooling	
Mounting		Wall Bracket	
Dimensions (W*H*D)		443mm*679mm*210mm	
Weight	29kg	31.1kg	31.1kg
HMI & COM			
Display		LED+LCD	
Communication Interfaces		RS485/CAN (for BMS), RS485, CAN (for parallel), 1*DO, 1*DI, Wi-Fi, LAN (Optional)	
Certification			
Safety		IEC/EN 62109-1/2	
EMC		IEC/EN 61000-6-1/2/3/4, IEC/EN 62920	
Grid		IEC 61727/62116, IEC 61683	
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.

