

SE 6/8KHB-D3/LV, SE 10/12/15/20KHB-T3/LV

Application: Residential Use & Small C&I Use



Excellent Performance

- 3 MPPTs with Max. PV Input power of 30kW
- Support high power module with 20A PV input current
- Up to 380A max. charging/discharging current
- Max. Grid Passthrough Current of 45A



High Flexibility

- Support 40-60V Lithium or Lead-acid battery
- 3-Phase unbalanced output: Increase the self-use rate of solar energy
- Support smart load/generator/AC Coupling
- Max. 9 units parallel for on-grid and off-grid operation



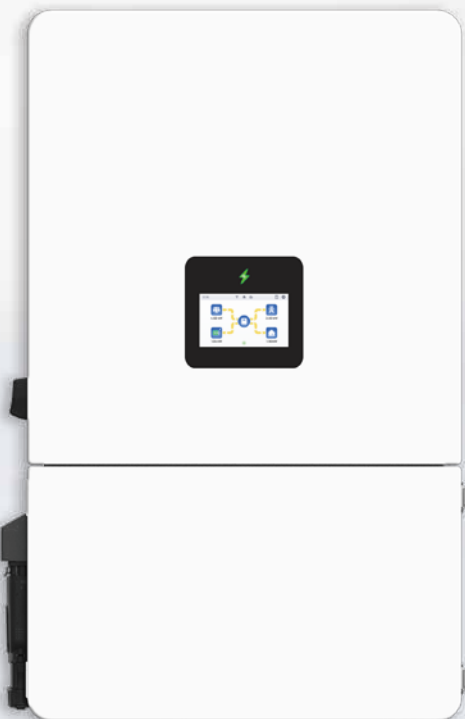
Safety & Reliability

- IP65: Indoor or outdoor installation
- MC4 PV connectors, convenient for installation
- Multiple built-in protections, with optional AFCI 2.0/RSD/Battery breaker
- Seamless transition to backup mode, for protection against power outages



Intelligent Maintenance

- 4.3" LCD color touchscreen, easy to operate
- 6 time periods for battery charging/discharging
- Intelligent Management, local & remote monitoring



THREE
PHASE
& LV
BATTERY



	SE 6KHB-D3/LV	SE 8KHB-D3/LV	SE 10KHB-T3/LV	SE 12KHB-T3/LV	SE 15KHB-T3/LV	SE 20KHB-T3/LV
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Efficiency

Max. Efficiency	97.60%					
European Efficiency	97.00%					

Input (PV)

Max. PV Access Power	25,000W	25,000W	40,000W	40,000W	40,000W	40,000W
Max. PV Usable Power	20,000W	20,000W	30,000W	30,000W	30,000W	30,000W
Max. PV Input Voltage	1,000V					
Start-up Voltage	120V					
MPPT Voltage Range	160V-980V					
Max. Input Current per MPPT	20A/20A	20A/20A	20A/20A/20A	20A/20A/20A	20A/20A/20A	20A/20A/20A
Max. Short Circuit Current per MPPT	30A/30A	30A/30A	30A/30A/30A	30A/30A/30A	30A/30A/30A	30A/30A/30A
No. of MPP Trackers	2	2	3	3	3	3
No. of Strings per MPP Tracker	1/1	1/1	1/1/1	1/1/1	1/1/1	1/1/1

Input/Output (BAT)

Battery Type	Lithium-ion/Lead-acid					
No. of Battery Input	2*					
Nominal Battery Voltage	48V					
Battery Voltage Range	40V-60V					
Max. Charge/Discharge Current	380A/150A	380A/200A	380A/250A	380A/300A	380A/350A	380A/380A
Max. Charge/Discharge Power	20,000W/7,200W	20,000W/9,600W	20,000W/12,000W	20,000W/14,500W	20,000W/18,000W	20,000W/20,000W

Input/Output (Grid)

Nominal AC Output Power	6,000W	8,000W	10,000W	12,000W	15,000W	20,000W
Max. AC Output Apparent Power	6,600VA	8,800VA	11,000VA	13,200VA	16,500VA	22,000VA
Nominal AC Output Current	3*9.1A/3*8.7A/3*8.3A	3*12.1A/3*11.6A/3*11.1A	3*15.2A/3*14.5A/3*13.9A	3*18.2A/3*17.4A/3*16.7A	3*22.7A/3*21.7A/3*20.8A	3*30.3A/3*29A/3*27.8A
Max. AC Output Current	3*10A	3*13.3A	3*16.7A	3*20A	3*25A	3*33.3A
Max. Single Phase Power	4,300W	4,300W	8,500W	8,500W	8,500W	8,500W
Max. Grid Passthrough Current (grid to load)	45A					
Nominal Voltage	220V/380V; 230V/400V, 240V/415V 3W+N+PE					
Nominal Frequency	50Hz/60Hz					
Power Factor	> 0.99 @rated power (Adjustable 0.8 LD - 0.8 LG)					
THDI	<3% @rated power					

Output (Back up)

Nominal AC Output Power	6,000W	8,000W	10,000W	12,000W	15,000W	20,000W
Max. AC Output Apparent Power	6,600VA	8,800VA	11,000VA	13,200VA	16,500VA	22,000VA
Nominal AC Output Current	3*9.1A/3*8.7A/3*8.3A	3*12.1A/3*11.6A/3*11.1A	3*15.2A/3*14.5A/3*13.9A	3*18.2A/3*17.4A/3*16.7A	3*22.7A/3*21.7A/3*20.8A	3*30.3A/3*29A/3*27.8A
Max. AC Output Current	3*10A	3*13.3A	3*16.7A	3*20A	3*25A	3*33.3A
Peak Output Apparent Power	200% @ 10s	200% @ 10s	200% @ 10s	200% @ 10s	200% @ 10s	150% @ 10s
Nominal Voltage	220V/380V; 230V/400V, 240V/415V 3W+N+PE					
Nominal Frequency	50Hz/60Hz					
Transfer Time	< 10ms (Typical)					
THDV	<3% @100% R Load					

Input (Generator)

Max. Input Power	30,000W
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Protection

Protection Category	Class I
PV Switch	Yes
Anti-islanding Protection	Yes
Overcurrent Protection	Yes
PV Reverse Polarity Protection	Yes
Overvoltage Protection	Yes
Surge Protection	DC Type II, AC Type II
Insulation Resistance Detection	Yes
Residual Current Protection	Yes
Built-in Battery Breaker	400A, Optional
AFCI 2.0/RSD	Optional

General

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)	460mm*742mm*266mm
Weight	50Kg

HMI & COM

Display	LED+LCD
Communication Interfaces	RS485/CAN (for BMS), RS485 (for Meter), DRMs, CAN (for parallel), 2*DO, 2*DI, USB (for 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 60068, IEC 61683, EN50549-1/10, CEI 0-21
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.

*: if only one set of terminals is used, the max battery charge/discharge current will be limited to 250A

