

## SE 3/3.6/4.6/5/6KHB-D1/HV

Application: Residential Use



### Excellent Performance

- Maximum efficiency of 97.8% and battery efficiency of 97.0%
- Maximum 12kW PV input power
- Maximum battery charge/discharge current of 42A



### Safety & Reliability

- Key components from international renowned brands
- IP66 protection rating, ensuring adaptability to complex outdoor environment
- Multiple built-in protections, with optional AFCI 2.0



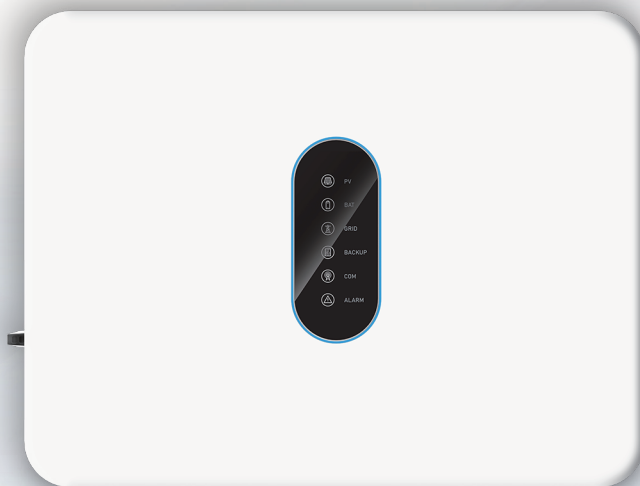
### High Flexibility

- Large MPPT current, compatible with high-power solar panels
- Supporting full-house load on backup port, with maximum capacity of 12kW

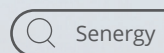


### Intelligent Maintenance

- Quick commission via mobile app, 24/7 remote monitoring, configuration and upgrade
- Advanced energy management mechanism, with multiple built-in working modes and flexible customized settings



SINGLE  
PHASE  
& HV  
BATTERY



## SE 3KHB-D1/HV

## SE 3K6HB-D1/HV

## SE 4K6HB-D1/HV

## SE 5KHB-D1/HV

## SE 6KHB-D1/HV

**Efficiency**

Max. Efficiency (PV to AC)	97.8%
European Efficiency (PV to AC)	97.5%

**Input (PV)**

Max. PV Usable Power	12,000W
Max. PV Input Voltage	550V
Start-up Voltage	90V
MPPT Operating Voltage Range	70V-540V
Max. Input Current per MPPT	16A/16A
Max. Short Circuit Current per MPPT	20A/20A
No. of MPP Trackers	2
No. of Strings per MPP Tracker	1/1

**Input/Output (BAT)**

Battery Type	Lithium-ion/Lead-acid				
Nominal Battery Voltage	360V				
Battery Voltage Range	80V-480V				
Max. Charge/Discharge Current	42A/42A				
Max. Charge/Discharge Power	9,000W/4,200W	9,000W/4,200W	9,000W/6,600W	9,000W/6,600W	9,000W/6,600W

**Output (Grid)**

Nominal AC Output Power	3,000W	3,600W	4,600W	5,000W	6,000W
Max. AC Output Apparent Power	3,300VA	3,960VA	4,600VA	5,500VA	6,600VA
Max. AC Output Power (PF=1)	3,300W	3,960W	4,600W	5,500W	6,600W
Max. AC Output Current	15.0A	18.0A	21.0A	25.0A	28.7A
Nominal voltage	220V/230V/240V, L+N+PE				
Grid Voltage Range	150V-300V (Adjustable)				
Nominal Grid Frequency	50Hz/60Hz				
AC 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	3,000W	3,600W	4,600W	5,000W	6,000W
Nominal Output Current	13A	15.7A	20A	21.7A	26.1A
Peak Output Apparent Power (1min)	3,600VA	4,320VA	5,520VA	6,000VA	7,200VA
Peak Output Apparent Power (15s)	4,350VA	5,220VA	6,670VA	7,250VA	8,700VA
Nominal Output Voltage	220V/230V/240V, L+N+PE				
Nominal Output Frequency	50/60Hz				
Transfer Time	<10ms (Typical)				
THDV	<3%@100% R Load				

**Protection**

Protection Category	Class I
PV 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 III, AC Type III
Insulation Resistance Detection	Yes
Leakage Current Protection	Yes
AFCI 2.0/RSD	Optional

**General**

Max. Operation Altitude	4,000m (>2,000m derating)				
Ingress Protection Degree	IP66				
Operating Temperature Range	-25°C~60°C (>45°C derating)				
Relative Humidity	0~100%				
Cooling Method	Natural Cooling				
Mounting	Wall bracket				
Dimensions (W*H*D)	470mm*360mm*172mm				
Weight	14.1kg	14.1kg	14.6kg	14.6kg	14.6kg
PV Connection Way	MC4/H4				

**HMI & COM**

Display	Bluetooth & APP + LED, LCD (Optional)
Communication Interface	RS485/CAN (BMS), DRM/RS485 (for Meter), RS485, Optional: Wi-Fi/LAN

**Certification**

Safety	IEC 62109-1/2
Grid Code	EN 50549-1, VDE 4105, AS 4777.2, CEI 0-21, G98/G99/G100, RD 1699/661/647/413, UNE 217002
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.

