

SE 3/3.6/3.68/4.6/5/6KHB-D1/LV-S

Application: Residential Use



Excellent Performance

- Support high power PV panel with 18A PV input current
- Max battery charge/discharge current of 135A
- Continuous 110% of nominal AC power



High Flexibility

- Support 40-65V Lithium or Lead-acid battery
- Max. 9 units parallel for on-grid and off-grid operation
- Support generator/smart load/AC coupling
- Compact and lightweight, easy to transport and space-saving



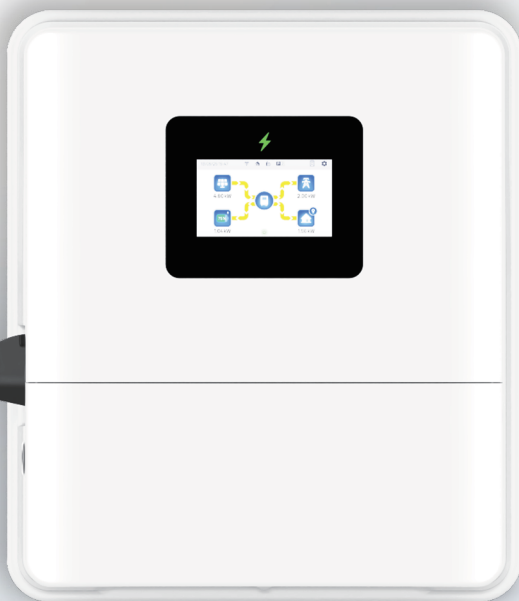
Safety & Reliability

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



Intelligent Maintenance

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



SINGLE
PHASE
& LV
BATTERY



SE 3KHB-D1/LV-S

SE 3K6HB-D1/LV-S

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SE 4K6HB-D1/LV-S

SE 5KHB-D1/LV-S

SE 6KHB-D1/LV-S

Efficiency

Max. Efficiency 97.3%

European Efficiency 96.8%

Input (PV)

Max. PV Usable Power 10,000W

Max. PV Input Voltage 550V

Start-up Voltage 90V

MPPT Operating Voltage Range 70V-540V

Max. Input Current per MPPT 18A/18A

Max. Short Circuit Current per MPPT 25A/25A

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 48V

Battery Voltage Range 40V-65V

Max. Charge/Discharge Current 75A/75A 75A/75A 75A/75A 110A/110A 110A/110A 135A/135A

Max. Charge/Discharge Power 4,000W/4,000W 4,000W/4,000W 4,000W/4,000W 5,500W/ 5,500W 5,500W/ 5,500W 6,600W/ 6,600W

Input/Output (Grid)

Nominal AC Output Power 3,000W 3,600W 3,680W 4,600W 5,000W 6,000W

Max. AC Output Apparent Power 3,300VA 3,960VA 3,680VA 4,600VA 5,500VA 6,600VA

Max. AC Output Power (PF=1) 3,300W 3,960W 3,680W 4,600W 5,500W 6,600W

Max. AC Output Current 15A 18A 16.7A 21A 25A 28.7A

Max. Grid Input Power 7,500W 7,500W 7,500W 9,000W 9,000W 9,000W

Max. Input Current 34A 34A 34A 41A 41A 41A

Nominal Voltage 220V/230V/240V, L+N+PE

Grid Voltage Range 150V-300V (Adjustable)

Nominal 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% @ R Load

Output (Back up)

Nominal AC Output Power 3,000W 3,600W 3,680W 4,600W 5,000W 6,000W

Nominal AC Output Current 13.6A/13.0A/12.5A 16.4A/15.7A/15.0A 16.7A/16.0A/15.3A 20.9A/20.0A/19.2A 22.7A/21.7A/20.8A 27.3A/26.1A/25.0A

Peak Output Apparent Power 120% @ 1min

Peak Output Apparent Power 200% @ 10s 200% @ 10s 200% @ 10s 200% @ 10s 200% @ 10s 166% @ 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 Yes

Anti-islanding Protection Yes

Overcurrent Protection Yes

Overvoltage Protection DC Type II, AC Type III

AC Short Circuit Protection Yes

PV Reverse Polarity Protection Yes

Surge Protection Type III (Type II, Optional)

Insulation Resistance Detection Yes

Residual Current Protection Yes

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 Natural Cooling Natural Cooling Natural Cooling Natural Cooling Natural Cooling Smart Cooling

Mounting Wall bracket

Dimensions (W*H*D) 367mm*421mm*215mm

Weight 16kg

HMI & COM

Display LED+LCD

Communication Interface RS485/CAN (for BMS), RS485 (for Meter), DRMs, CAN (for parallel), 2*DO, 2*DI, Wi-Fi/LAN (Optional)

Certification

Grid Code IEC 61727/62116/61683/60068, G98/G99/G100, EN 50549-1/-10, CEI 0-21

Safety IEC/EN 62109-1&2

EMC IEC/EN 61000/62920

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.



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