

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

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



Safety & Reliability

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



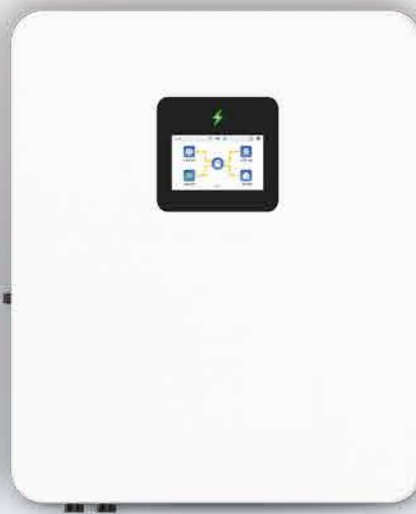
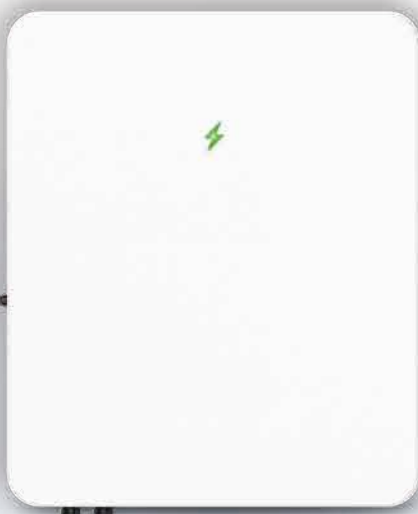
High Flexibility

- 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
- Plug and play for easy installation



Intelligent Maintenance

- Intelligent Management, local & remote monitoring
- 3 application modes, mixed with battery scheduling
- LCD touch color screen, easy to operate (Optional)



SINGLE
PHASE
& LV
BATTERY



Efficiency

| | |
|-----------------------------|-------|
| Max. Efficiency (PV to AC) | 97.3% |
| Eur. Efficiency (PV to AC) | 96.8% |
| Max. Efficiency (BAT to AC) | 94.3% |

Input (PV)

| | |
|------------------------------|----------|
| Max. PV Usable Power | 10,000W |
| Max. PV Voltage | 550V |
| Start-up Voltage | 90V |
| MPPT Operating Voltage Range | 70V-540V |
| Max. Input Current | 18A/18A |
| Max. Short Circuit Current | 25A/25A |
| Nos. of MPPT | 2 |
| String per MPPT | 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 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. Input Power From Grid | 7,500W | 7,500W | 7,500W | 9,000W | 9,000W | 9,000W |
| Max. Input Current From Grid | 34A | 34A | 34A | 41A | 41A | 41A |
| Rated Grid Voltage | 220V/230V/240V, L+N+PE | | | | | |
| Grid Voltage Range | 150V-300V (Adjustable) | | | | | |
| Rated 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 | 3,680W | 4,600W | 5,000W | 6,000W |
| Rated 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 Power (1min) | 3,600VA | 4,320VA | 4,416VA | 5,520VA | 6,000VA | 7,200VA |
| Peak Output Power (10s) | 6,000VA | 7,200VA | 7,360VA | 9,200VA | 10,000VA | 10,000VA |
| Nominal Output Voltage | 220V/230V/240V, L+N+PE | | | | | |
| Nominal Output Frequency | 50Hz/60Hz | | | | | |
| Transfer Time | 10ms (Typical) | | | | | |
| THDV | <3%@100% R Load | | | | | |

Protection

| | |
|-------------------------------|---|
| Protection Category | Class I |
| DC Switch | Yes |
| Anti-islanding Protection | Yes |
| AC Over Current Protection | Yes |
| PV/AC Over Voltage Protection | DC Type II, AC Type III |
| AC Short Circuit Protection | Yes |
| PV Reverse Protection | Yes |
| Surge Arrester | DC Type III, AC Type III (Type II Optional) |
| Insulation Detection | Yes |
| Leakage Current Protection | Yes |

General

| | | | | | | |
|-----------------------------|------------------------------|-----------------|-----------------|-----------------|-----------------|-------------------|
| Max. Operation Altitude | 4000m (>2000m derating) | | | | | |
| 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 Fan Cooling |
| Mounting | Wall bracket | | | | | |
| Dimensions (W*H*D) | 377mm*452mm*206mm | | | | | |
| Weight | 20Kg | | | | | |

HMI & COM

| | |
|-------------------------|---|
| Display | LED, LCD (Optional) |
| Communication Interface | RS485/CAN (for BMS), RS485 (for Meter), DRMs, CAN (for parallel), 2*DO, 2*DI, USB (for Wi-Fi/LAN, optional) |

Certification

| | |
|-----------|--|
| Grid Code | IEC 61727/62116/61683/60068, NRS 097-2-1, G98, G99, VDE4105, EN 50549-1/-10, AS 4777.2 |
| 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.