

HB L3 SERIES | THREE PHASE HYBRID INVERTER

PV 5/6/8/10KHB-D3



200% PV overload



98.4% maximum system efficiency



<10 ms UPS-level switching



150% unbalanced load



Wide battery voltage from 150V to 600V



100% load backup



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| Model | PV 5KHB-D3 | PV 6KHB-D3 | PV 8KHB-D3 | PV 10KHB-D3 |
|-------------------------------------|---|---------------|----------------|-----------------|
| Efficiency | | | | |
| Max. Efficiency (PV to AC) | 98.2% | | 98.4% | |
| Max. Efficiency (BAT to AC) | 98.0% | | | |
| PV String Input Data | | | | |
| Max. Input Power | 9,000W | | 15,000W | |
| Max. PV Configuration (STC) | 200% | | | |
| Max. Input Voltage | 1000V | | | |
| Start-up Voltage | 150V | | | |
| MPPT Operating Voltage Range | 160V-950V | | | |
| Max. Input Current per MPPT | 15A/15A | | 20A/30A | |
| Max. Short Circuit Current per MPPT | 20A/20A | | 30A/40A | |
| Number of MPP Trackers | 2 | | | |
| Number of String per MPPT | 1/1 | | 1/2 | |
| Battery Input/output Data | | | | |
| Battery Type | Lithium-ion, Lead-acid | | | |
| Nominal Battery Voltage | 250V-600V | | | |
| Battery Voltage Range | 150V-600V | | | |
| Max. Charging/Discharging Current | 25A/25A | 25A/25A | 50A/50A | 50A/50A |
| Max. Charging/Discharging Power | 9,000W/5,800W | 9,000W/7,000W | 15,000W/9,100W | 15,000W/11,300W |
| AC Output Data (On-grid) | | | | |
| Nominal AC Output Power | 5,000W | 6,000W | 8,000W | 10,000W |
| Rated Output Apparent Power | 5,000VA | 6,000VA | 8,000VA | 10,000VA |
| Max. AC Apparent Power | 5,500VA | 6,600VA | 8,800VA | 11,000VA |
| Max. AC Output Power (PF=1) | 5,500W | 6,600W | 8,800W | 11,000W |
| Max. AC Output Current | 3*8.3A | 3*10A | 3*13.3A | 3*16.7A |
| Max. Single Phase Output Power | 2,500W | 3,000W | 4,000W | 5,000W |
| Max. AC Input Power | 15,000VA | | | |
| Max. Input Current | 3*25A | | | |
| Nominal Output Voltage | 380V/400V/415V, 3W+N+PE | | | |
| Output Voltage Range | 260V-520V (Adjustable) | | | |
| Nominal AC Grid Frequency | 50Hz/60Hz | | | |
| Grid Frequency Range | 45Hz-55Hz/55Hz-65Hz (Adjustable) | | | |
| Power Factor | > 0.99 @rated power (Adjustable 0.8 LD - 0.8 LG) | | | |
| Max. Total Harmonic Distortion | <5% (Rated Power) | | | |
| AC Output Data (Back up) | | | | |
| Nominal Output Power | 5,000W | 6,000W | 8,000W | 10,000W |
| Nominal Output Current | 3*7.6A | 3*9.1A | 3*12.2A | 3*15.2A |
| Max. Single Phase Power | 2,500W | 3,000W | 4,000W | 5,000W |
| Peak Output Apparent Power (5min) | 6,000VA | 7,200VA | 9,600VA | 12,000VA |
| Peak Output Apparent Power (10s) | 7,500VA | 9,000VA | 12,000VA | 15,000VA |
| Nominal Output Voltage | 380V/400V/415V, 3W+N+PE | | | |
| Nominal Output Frequency | 50Hz/60Hz | | | |
| Transfer Time | 10ms | | | |
| Output THDV | <3% (R Load) | | | |
| Protection | | | | |
| Protection Category | Class I | | | |
| DC Switch | Yes | | | |
| Anti-Islanding Protection | Yes | | | |
| AC Over Current Protection | Yes | | | |
| AC Over Voltage Protection | Yes | | | |
| AC Short Circuit Protection | Yes | | | |
| DC Reverse Protection | Yes | | | |
| Surge Arrestion | DC Type II, AC Type II | | | |
| PV Insulation Resistance Detection | Yes | | | |
| Leakage Current Protection | Yes | | | |
| AFCI | Optional | | | |
| RSD | Optional | | | |
| General Data | | | | |
| Max. Operating Altitude | 4000m (>2000m derating) | | | |
| Ingress Protection Rating | IP65 | | | |
| Operating Temperature Range | -25°C~60°C (>45°C derating) | | | |
| Relative Humidity | 0~100% | | | |
| Cooling Method | Natural Cooling | | | |
| Mounting Method | Wall bracket | | | |
| Advanced Parallel | Up to 9 Pcs | | | |
| Dimension (W*H*D) | 530mm*550mm*212mm | | | |
| Weight | 30Kg | | | 32Kg |
| PV Connection | MC4/H4 | | | |
| HMI & COM | | | | |
| Display | LED+APP, LCD (Optional) | | | |
| Communication Interface | RS485/CAN (for BMS), RS485, RS485 (for Meter), DRMs, 2*DI (1 for RMO), 2*DO, Optional: Wi-Fi/GPRS/LAN | | | |
| Certification | | | | |
| Grid | VDE-AR-N4105, IEC 61727/62116, AS 4777.2, EN 50549-1, C10/11, G99, CEI 0-21, NRS 097-2-1, RD 1699/661/413 | | | |
| Safety | IEC 62109-1&2 | | | |
| EMC | EN 61000 | | | |
| Warranty | 10 Years | | | |
| Country of Manufacture | China | | | |

- Remarks:**
- The range of output voltage and frequency may vary depending on different grid codes.
 - Specifications are subject to change without advanced notice.