

# SINGLE PHASE ECO HYBRID INVERTER

JSD 6KHB--D1/LV-ECO



## 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 40-60V Lithium or Lead-acid battery
- Support generator/smart load/AC coupling
- Max. 5 units parallel



## SAFETY & RELIABILITY

- IP65: Indoor or outdoor installation
- Multiple built-in protections
- Compact and lightweight, easy to transport and space-saving



## INTELLIGENT FUNCTIONS

- LCD touch color screen, easy to operate
- Intelligent management, support remote monitoring

| Model                             | JSD 6KHB--D1/LV-ECO |                                                                                           |
|-----------------------------------|---------------------|-------------------------------------------------------------------------------------------|
| 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 Input Power               |                     | 7,800W                                                                                    |
| Max. PV Voltage                   |                     | 500V                                                                                      |
| Start-up Voltage                  |                     | 90V                                                                                       |
| MPPT Voltage Range                |                     | 70V-480V                                                                                  |
| 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-60V                                                                                   |
| Max. Charging/Discharging Current |                     | 135A/135A                                                                                 |
| Max. Charging/Discharging Power   |                     | 6,600W/6,600W                                                                             |
| AC Output                         |                     |                                                                                           |
| Nominal Output Power              |                     | 6,000W                                                                                    |
| Max. Output Power                 |                     | 6,600VA                                                                                   |
| Rated AC Output Current           |                     | 27.3A/26.1A/25.0A                                                                         |
| Peak Output Power (1min)          |                     | 7,200VA                                                                                   |
| Peak Output Power (10s)           |                     | 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)                                                                        |
| AC Input                          |                     |                                                                                           |
| Max. Input Power From Grid        |                     | 9,000W                                                                                    |
| Max. Input Current From Grid      |                     | 41A                                                                                       |
| Rated Grid Voltage                |                     | 220V/230V/240V, L+N+PE                                                                    |
| Grid Input Voltage Range          |                     | 176V-264V                                                                                 |
| Rated Grid Frequency              |                     | 50Hz/60Hz                                                                                 |
| AC Frequency Range                |                     | 45Hz-55Hz/55Hz-65Hz (Adjustable)                                                          |
| Protection                        |                     |                                                                                           |
| Protection Category               |                     | Class I                                                                                   |
| PV Switch                         |                     | Optional                                                                                  |
| 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                                                                  |
| General                           |                     |                                                                                           |
| Max. Operation Altitude           |                     | 4000m (>2000m derating)                                                                   |
| Protection Degree                 |                     | IP65                                                                                      |
| Operating Temperature Range       |                     | -25℃ ~60℃                                                                                 |
| Relative Humidity                 |                     | 0~100%                                                                                    |
| Cooling                           |                     | Smart Fan Cooling                                                                         |
| Mounting                          |                     | Wall bracket                                                                              |
| Dimensions (W*H*D)                |                     | 367mm*421mm*215mm                                                                         |
| Weight                            |                     | 15.5Kg                                                                                    |
| HMI & COM                         |                     |                                                                                           |
| Display                           |                     | LED+LCD                                                                                   |
| Communication                     |                     | RS485/CAN (for BMS), RS485, CAN (for parallel), 1*DO, 1*DI, USB (for Wi-Fi/LAN, optional) |
| Certification                     |                     |                                                                                           |
| Safety                            |                     | IEC/EN 62109-1&2                                                                          |
| EMC                               |                     | IEC/EN 61000/62920                                                                        |
| Warranty                          |                     | 5 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.



www.jsdsolar.com



service@jsdsolar.com



0086-755-89918655