# Huawei SUN2000-3/3.68/4/4.6/5/6K-LB0

**The Huawei SUN2000-LB0 is a single-phase hybrid inverter delivering 3-6kW with 97.8% efficiency and 16A MPPT current. Features IP66 rating, AFCI arc protection, and whole-home backup with 20ms switchover.**

**Models Covered:** SUN2000-3K-LB0, SUN2000-3.68K-LB0, SUN2000-4K-LB0, SUN2000-4.6K-LB0, SUN2000-5K-LB0, SUN2000-6K-LB0

**Manufacturer:** Huawei Digital Power Technologies Co., Ltd.

**Application:** Ideal for United Arab Emirates's climate with wide operating temperature range and dust-resistant design.

INVERTERS | LB0 SINGLE-PHASE HYBRID INVERTER | 97.8% MAX EFFICIENCY | DUAL MPPT WITH 16A INPUT | IP66 RATED | AFCI ARC FAULT PROTECTION (200M DETECTION) | WHOLE-HOME BACKUP (20MS SWITCHOVER)

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Technical Specifications


- Technical Specifications
- Key Features
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- Frequently Asked Questions


## Technical Specifications

| Parameter | SUN2000-3K-LB0 | SUN2000-3.68K-LB0 | SUN2000-4K-LB0 | SUN2000-4.6K-LB0 | SUN2000-5K-LB0 | SUN2000-6K-LB0 |
|---|---|---|---|---|---|---|
| **DC Input** | | | | | | |
| Max DC Voltage [V] | 600 | | | | | |
| MPPT Voltage Range [V] | 40-560 | | | | | |
| Max Input Current per MPPT [A] | 16 | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| No. of MPPTs | 2 | | | | | |
| **AC Output** | | | | | | |
| Rated AC Power [W] | 3000 | 3680 | 4000 | 4600 | 5000 | 6000 |
| Grid Connection | Single-Phase | | | | | |
| Max Efficiency [%] | 97.8 | | | | | |
| **General Data** | | | | | | |
| Dimensions (W×H×D) [mm] | 376 × 425 × 150 | | | | | |
| Weight [kg] | 15 | | | | | |
| Protection Degree | IP66 | | | | | |
| Operating Temperature | -25 °C ~ +60 °C | | | | | |
| Cooling | Natural Convection | | | | | |

**Note:** Specifications are based on the official Huawei datasheet. Values may be subject to change; always verify against the latest manufacturer documentation.

## Key Features

- 97.8% Max Efficiency
- Dual MPPT with 16A Input
- IP66 Rated
- AFCI Arc Fault Protection (200m Detection)
- Whole-Home Backup (20ms Switchover)
- LUNA2000 Battery Compatible

## Applications & Use Cases

### Typical Applications

- Residential solar systems
- Commercial installations
- Industrial solar plants
- Utility-scale projects
- Smart grid integration

### Regional Installation Notes (United Arab Emirates)

**Climate Suitability:** Ideal for United Arab Emirates's climate with wide operating temperature range and dust-resistant design.

- Sand and dust resistant design
- Wide operating temperature range
- High efficiency in hot conditions
- Long-term warranty

## Frequently Asked Questions

**▼ What makes the LB0 different from the L1?**

The LB0 is a dedicated hybrid inverter with integrated battery management, IP66 rating (vs IP65), and higher 16A MPPT input current. It is specifically designed for energy storage systems with whole-home backup capability.

**▶ How fast is the backup switchover?**

**▶ What is the warranty coverage for the Huawei SUN2000-3/3.68/4/4.6/5/6K-LB0?**

**▶ What certifications does the Huawei SUN2000-3/3.68/4/4.6/5/6K-LB0 have?**

**▶ What model variants are available in the SUN2000-3/3.68/4/4.6/5/6K-LB0 series?**

**▶ What are the installation requirements for the Huawei SUN2000-3/3.68/4/4.6/5/6K-LB0?**

**▶ How does the Huawei SUN2000-3/3.68/4/4.6/5/6K-LB0 perform in hot climates?**

▶ What are the dimensions and weight of the Huawei SUN2000-3/3.68/4/4.6/5/6K-LB0?

## Official Source & Documentation

This technical datasheet is derived from official manufacturer documentation provided by **Huawei Digital Power Technologies Co., Ltd.**.

- **Manufacturer Website:** https://solar.huawei.com
- **Technical Support:** solar@huawei.com
- **Sales Inquiries:** sales@huawei-solar.org
- **Data Source:** Official Datasheet - Huawei Digital Power Technologies Co., Ltd.

***Disclaimer:*** *All specifications are based on the official datasheet. Specifications are subject to change without notice. Please verify with the manufacturer for the most current information.*

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