

Huawei 6kW photovoltaic inverter





Overview

What is a 6kW solar inverter?

The Huawei SUN2000-6KTL-L1 is a 6kW inverter engineered to elevate solar system performance through superior efficiency and safety. With dual MPPT inputs and full compatibility with Huawei's Gen2 power optimisers, this inverter increases energy yield — particularly in shaded or complex roof conditions.

Why should you buy a Huawei sun2000-6kti inverter?

Thanks to these integrated MPPTs, the Huawei SUN2000-6KTL inverter maximizes the efficiency of the solar panels so that the investment made is amortized more quickly since maximum energy is offered to the home at all times depending on the number and type of solar panels installed and the solar radiation they are receiving.

What is the maximum input PV power for a Huawei inverter?

Recommended max. PV power 1 *1. The inverter max input PV power is 10,000 Wp when long strings are designed and fully connected with optimizers.
Disclaimer: The preceding values are measured by an internal laboratory of Huawei in a specific environment.

What is Huawei 3 phase hybrid inverter sun2000-6kti-m1?

Models from 2KW to 10KW, both single-phase and three-phase, have a 5KW LUNA battery charging function. High efficiency inverter topology, max. Efficiency 98,4% The Huawei Three-Phase Hybrid Inverter SUN2000-6KTL-M1 6kW grid connection is prepared to be installed in homes that are supplied with three-phase current.

Why should you buy a Huawei inverter?

With dual MPPT inputs and full compatibility with Huawei's Gen2 power optimisers, this inverter increases energy yield — particularly in shaded or



complex roof conditions. Its built-in AFCI protection uses AI-powered arc detection to proactively prevent electrical faults, enhancing system safety.

What is a three-phase hybrid inverter sun2000-6ktl-m1 6kW?

The Huawei Three-Phase Hybrid Inverter SUN2000-6KTL-M1 6kW offers an intermediate solution within the three-phase models of Huawei's new KTL range.



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Efficient Higher Revenue

- Max. Efficiency 97.2%
- Max. PV Input Voltage 1000V
- 150% Peak Output Power
- 2 MPP Trackers, 150% DC Input Overvoltage
- Max. PV Input Current 15A, Compatible with High-Power Modules

Intelligent Simple O&M

- IP66 Protection Degree, support outdoor installation
- Smart IV Curve Diagnosis Function, locate PV string faults accurately and automatically detect faults
- DC & AC Type II SPD, prevent lightning damage
- Battery Reverse Connection Protection

Flexible Abundant Configuration

- Plug & Play, EPS Switching Under 10ms
- Compatible with Lead-acid and Lithium Batteries
- Max. Current Inverter Parallel
- AFCI Function (Optional): when an arc fault is detected the inverter immediately stops operation

[6 kW Single-Phase Hybrid Inverter, Huawei SUN2000-2-6KTL-L1](#)

The Huawei SUN2000-6KTL-L1 represents an advanced and efficient solution for managing solar energy in homes and businesses. With a 6000W output power and a maximum efficiency of ...

[Product Information](#)



[Huawei SUN2000-6K-MAP0 hybrid inverter \(full backup capable\)](#)

The new series of hybrid inverters from 5 to 12 kW can implement a real 3-phase backup solution in addition to the tried and tested standards. The automatically switching Smart Guard-63A-T0 ...

[Product Information](#)



☒ IP65/IP55 OUTDOOR CABINET

☒ WATERPROOF OUTDOOR CABINET

☒ 42U/27U

☒ OUTDOOR BATTERY CABINET

Certificate of IEC61683 for SUN5000

SUN2000-10K-MAP0-BE Brand Name: ~~Product~~
~~Complies with: IEC61683:1999 Photovoltaic~~
~~systems Power conditioners Procedure for~~
~~measuring efficiency Certificate ...~~

[Product Information](#)

[Huawei 6kW THREE-PHASE HYBRID Inverter](#)

Huawei SUN2000L 6KTL-M1 is a new hybrid inverter with 6000W of power. It is possible to achieve high yields thanks to the maximum efficiency of 98.3% (European efficiency of 97.3%). ...



[Product Information](#)



[SUN2000-2/3/3.68/4/4.6/5/6KTL-L1 \(Single-Phase\)](#)

SUN2000-2/3/3.68/4/4.6/5/6KTL-L1 (Single-Phase) Smart Energy Controller, a self-developed solar inverter by Huawei to provide power generation of higher yields, active safety and ...

[Product Information](#)



Huawei SUN2000-6KTL-L1 - 6kW Solar Inverter with Dual MPPT ...

With advanced AFCI technology, dual MPPT (Maximum Power Point Tracking) for higher yields, and a plug-and-play installation, this inverter offers a reliable and efficient solution for ...

[Product Information](#)



Huawei 6KW Smart Energy Controller

The HUAWEI SUN2000-2KTL-6KTL-L1 is a battery-ready string inverter rated from 2 kW up to 6kW, ideal for integration with the LUNA Smart String Energy Storage System, SmartGuard ...

[Product Information](#)





[6 kW Single-Phase Hybrid Inverter, Huawei SUN2000 ...](#)

The Huawei SUN2000-6KTL-L1 represents an advanced and efficient solution for managing solar energy in homes and businesses. With a 6000W output power ...

[Product Information](#)



[UL 1741SA Certificate \(SUN2000-3.8-7.6KTL-USL0\)](#)

UL 62109-1, Safety of Converters for Use in Photovoltaic Power Systems - Part 1: General Requirements; IEC 62109-2, Safety of Power Converters for use in Photovoltaic Power ...

[Product Information](#)

7.38kW OnGrid 1-Phase Kit Huawei 6kW Inverter 10kWh Battery ...

Solar Kit made up of 18 410W monocrystalline silicon photovoltaic panels, the Huawei SUN2000-6KTL-L1 Hybrid Inverter 6000/9000W, the Huawei LUNA2000-10-SO 360V 10kWh Power ...

[Product Information](#)



6kW 7200W Single-Phase On-Grid Photovoltaic Kit with Huawei Hybrid Inverter

6kW 7200W Single-Phase On Grid photovoltaic kit made by 16 x 450W monocrystalline silicon photovoltaic panels, the Huawei SUN2000-6KTL-L1 6000/9000W hybrid inverter and the 100A ...

[Product Information](#)



[Huawei SUN2000-6KTL-M1 6kW Three-Phase Inverter](#)

The Huawei SUN2000-6KTL-M1 6kW Inverter has a power of 6,000W and 6,500VA, as well as a maximum output current of 10.1A, making this inverter an excellent option for small-sized three ...

[Product Information](#)



[Huawei SUN2000-6K-MAP0 hybrid inverter \(full backup capable\)](#)

The new series of hybrid inverters from 5 to 12 kW can implement a real 3-phase backup solution in addition to the tried and tested standards. The automatically switching Smart Guard-63A-T0 ...

[Product Information](#)

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