Huawei SUN2000-100/115KTL-M2

The Huawei SUN2000-M2 is a high-power three-phase commercial string inverter delivering 100-115kW with up to 98.8% efficiency (@480V). Features 10 MPPTs, 20 DC inputs, IP66 protection, and active cooling for large C&I installations.

Models Covered: SUN2000-100KTL-M2, SUN2000-115KTL-M2

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 | M2 COMMERCIAL SMART PV CONTROLLER | 98.8% MAX EFFICIENCY (@480V) | 10 MPPTS / 20 DC INPUTS | IP66 RATED | ACTIVE COOLING | 30A PER MPPT INPUT

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Technical Specifications

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Technical Specifications

Parameter	SUN2000-100KTL-M2	SUN2000-115KTL-M2
DC Input		
Recommended Max PV Power [Wp]	100000	115000
Max DC Voltage [V]	1100	
Max Input Current per MPPT [A]	30	
No. of MPPTs / Total Inputs	10 / 20	
AC Output		
Rated AC Power [kW]	100	115

Max Apparent Power [kVA]	110	125
Max Efficiency [%]	98.6 (@400V) / 98.8 (@480V)	
European Efficiency [%]	98.4	
General Data		
Protection Degree	IP66	
Cooling	Active (Smart Air Cooling)	
Operating Temperature	-25 °C ~ +60 °C	

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

Key Features

98.8% Max Efficiency (@480V)	10 MPPTs / 20 DC Inputs	IP66 Rated
Active Cooling	30A per MPPT Input	10-Year Warranty

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

Why does the M2 have 10 MPPTs?

With 10 independent MPPT trackers and 20 DC inputs, the M2 maximizes energy harvest on large commercial rooftops with complex orientations, shading patterns, and mixed module types.

What is the warranty coverage for the Huawei SUN2000-100/115KTL-M2?

What certifications does the Huawei SUN2000-100/115KTL-M2 have?

What model variants are available in the SUN2000-100/115KTL-M2 series?

What are the installation requirements for the Huawei SUN2000-100/115KTL-M2?

How does the Huawei SUN2000-100/115KTL-M2 perform in hot climates?

What are the key features of the Huawei SUN2000-100/115KTL-M2?

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.*

Last Updated: March 2026 | **Document Version:** 1.0 | **Published by:** Huawei UAE (huawei-solar.org)