Huawei SUN2000-30/36/40KTL-M3

The Huawei SUN2000-M3 (30-40kW) is a three-phase commercial string inverter with up to 98.7% efficiency, 4 MPPTs, and 8 string inputs. Features IP66 protection, PID recovery, and is designed for C&I rooftop plants.

Models Covered: SUN2000-30KTL-M3, SUN2000-36KTL-M3, SUN2000-40KTL-M3

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 | M3 COMMERCIAL SMART PV CONTROLLER | 98.7% MAX EFFICIENCY | 4 MPPTS / 8 STRING INPUTS | IP66 RATED | PID RECOVERY INTEGRATED | TYPE II AC/DC SURGE PROTECTION

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Technical Specifications

- Technical Specifications
- Key Features
- Applications & Use Cases
- Frequently Asked Questions

Technical Specifications

Parameter	SUN2000-30KTL-M3	SUN2000-36KTL-M3	SUN2000-40KTL-M3
DC Input			
Max DC Voltage [V]	1100		
MPPT Voltage Range [V]	200-1000		
Max Input Current per MPPT [A]	27		
Max Input Current per String [A]	20		
Startup Voltage [V]	200		

No. of MPPTs / Total Inputs	4 / 8		
AC Output			
Rated AC Power [W]	30000	36000	40000
Rated Output Current [A]	43.3	52.0	57.8
Nominal AC Voltage [V]	230/400, 480		
Max Efficiency [%]	98.7		
European Efficiency [%]	98.4		
General Data			
Protection Degree	IP66		
Operating Temperature	-25 °C ~ +60 °C		
Max Altitude [m]	4000		

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

Key Features

- 98.7% Max Efficiency
- 4 MPPTs / 8 String Inputs
- IP66 Rated
- PID Recovery Integrated
- Type II AC/DC Surge Protection
- 25+ Years Design Life

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

▼ How many strings can the M3 handle?

The 30-40kW M3 has 4 independent MPPT trackers with 8 total string inputs, supporting complex rooftop designs with multiple orientations and tilt angles.

▶ What is the warranty coverage for the Huawei SUN2000-30/36/40KTL-M3?

▶ What certifications does the Huawei SUN2000-30/36/40KTL-M3 have?

▶ What model variants are available in the SUN2000-30/36/40KTL-M3 series?

▶ What are the installation requirements for the Huawei SUN2000-30/36/40KTL-M3?

▶ How does the Huawei SUN2000-30/36/40KTL-M3 perform in hot climates?

▶ What are the key features of the Huawei SUN2000-30/36/40KTL-M3?

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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