SUN2000-50KTL-M3

Smart PV Controller







Higher Yields

Up to 30% More Energy with Optimizer



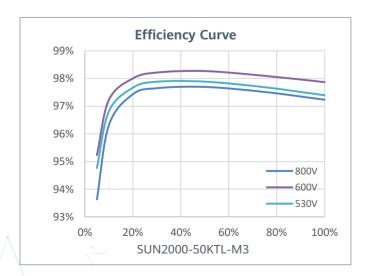
Active Safety

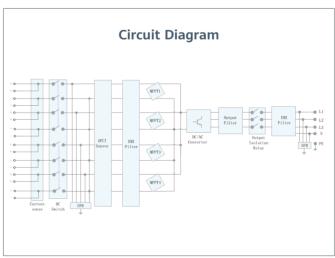
Al Powered Active Arcing Protection



Flexible Communication

WLAN, Fast Ethernet, 4G Communication Supported







Technical Specification

echnical Specification	SUN2000-50KTL-M3
	Efficiency
Max. Efficiency	98.5%
European Efficiency	98.0%
	Input
Max. Input Voltage 1	1,100 V
Max. Current per MPPT	30 A
Max. Current per Input	20 A
Max. Short Circuit Current per MPPT	40 A
Start Voltage	200 V
MPPT Operating Voltage Range ²	200 V ~ 1,000 V
Rated Input Voltage	600 V
Number of Inputs	8
Number of MPP Trackers	4
	Output
Rated AC Active Power	50,000 W
Max. AC Apparent Power	55,000 VA
Max. AC Active Power (cosφ=1)	55,000 W
Rated Output Voltage	400 Vac / 480 Vac, 3W+(N) + PE
Rated AC Grid Frequency	50 Hz / 60 Hz
Rated Output Current	72.2 A @ 400Vac, 60.1 A @ 480Vac
Max. Output Current	79.8 A @ 400Vac, 66.5 A @ 480Vac
Adjustable Power Factor Range	0.8 LG 0.8 LD
Max. Total Harmonic Distortion	<3%
	Protection
nput-side Disconnection Device	Yes
Anti-islanding Protection	Yes
AC Overcurrent Protection	Yes
DC Reverse-polarity Protection	Yes
PV-array String Fault Monitoring	Yes
DC Surge Arrester	Type II
AC Surge Arrester	Type II
DC Insulation Resistance Detection	Yes
Residual Current Monitoring Unit Arc Fault Protection	Yes Yes
Ripple Receiver Control	Yes
Integrated PID Recovery ³	Yes
neegrated 115 Recovery	103
	Communication
DiI	LED Indicators, Bluetooth + APP
Display RS485	Yes
Smart Dongle	WLAN/Ethernet via Smart Dongle-WLAN-FE (Optional) 4G / 3G / 2G via Smart Dongle-4G (Optional)
Monitoring BUS (MBUS)	Yes (Isolation Transformer required)
	General Data
Dimensions (W x H x D)	640 x 530 x 270 mm (25.2 x 20.9 x 10.6 inch)
Weight (with mounting plate)	49 kg (108.1 lb)
Operating Temperature Range	-25°C ~ 60°C (-13°F ~ 140°F)
Cooling Method	Smart Air Cooling
Max. Operating Altitude	4,000 m (13,123 ft.)
Relative Humidity	0% RH ~ 100% RH
OC Connector	Amphenol HH4
AC Connector	Waterproof Connector + OT/DT Terminal
Protection Degree	IP 66
Гороlogy	Transformerless
Nighttime Power Consumption	≤ 5.5W
	Standard Compliance (more available upon request)

Grid Connection Standards

IEC 61727, VDE-AR-N4105, VDE 0126-1-1, BDEW, G59/3, UTE C 15-712-1, CEI 0-16, CEI 0-21, RD 661, RD 1699, P.O. 12.3,RD 413, EN-50438-Turkey, EN-50438-Ireland, C10/11, MEA, Resolution No.7, NRS 097-2-1, AS/NZS 4777.2, DEWA

^{1.} The maximum input voltage is the upper limit of the DC voltage. Any higher input DC voltage would probably damage inverter.

2. Any DC input voltage beyond the operating voltage range may result in inverter improper operating.

3. SUN2000-30-50KTL-M3 raises potential between PV- and ground to above zero through integrated PID recovery function to recover module degradation from PID. Supported module types include: P-type (mono, poly), N-type (nPERT, HIT).

Preliminary version. For Reference only. Any datasheet issued previously becomes invalid when the official version is released.

The words and pictures in this release only reflect the preliminary status of the products and solutions. Because of the product development, the technical specifications from this version may change. We apologize and will provide you with the latest technical specifications for our products and solutions. For more information, please visit solar.huawei.com/.

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