SUN2000-50KTL-M3

Smart PV Controller







Higher Yields

Up to 30% More Energy with Optimizer



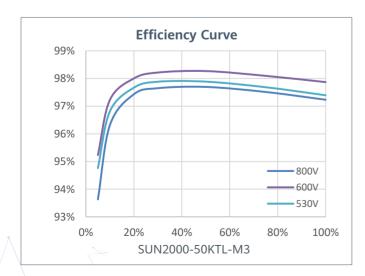
Active Safety

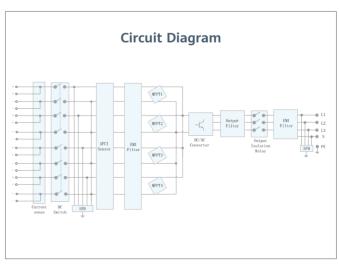
Al Powered Active Arcing Protection



Flexible Communication

WLAN, Fast Ethernet, 4G Communication Supported





Technical Specification

	Efficiency
Max. Efficiency	98.5%
uropean Efficiency	98.0%
	Input
Any Innut Voltage 1	Input
Max. Input Voltage 1	1,100 V
Max. Current per MPPT	30 A
Max. Current per Input Max. Short Circuit Current per MPPT	20 A 40 A
tart Voltage	200 V
MPPT Operating Voltage Range ²	200 V 200 V ~ 1,000 V
ated Input Voltage	600 V
lumber of Inputs	8
lumber of MPP Trackers	4
	Output
ated AC Active Power	50,000 W
Max. AC Apparent Power	55,000 VA
1ax. AC Active Power (cosφ=1)	55,000 W
ated Output Voltage	400 Vac / 480 Vac, 3W+(N) + PE
ated AC Grid Frequency	50 Hz / 60 Hz
ated Output Current	72.2 A @ 400Vac, 60.1 A @ 480Vac
lax. Output Current	79.8 A @ 400Vac, 66.5 A @ 480Vac
djustable Power Factor Range	0.8 LG 0.8 LD
Max. Total Harmonic Distortion	<3%
	Protection
and aid Discoursetion Davies	
nput-side Disconnection Device nti-islanding Protection	Yes Yes
C Overcurrent Protection	Yes
C Reverse-polarity Protection	Yes
V-array String Fault Monitoring	Yes
OC Surge Arrester	Type II
C Surge Arrester	Type II
OC Insulation Resistance Detection	Yes
esidual Current Monitoring Unit	Yes
arc Fault Protection	Yes
lipple Receiver Control	Yes
ntegrated PID Recovery ³	Yes
	Communication
oisplay	LED Indicators, Bluetooth + APP Yes
S485	WLAN/Ethernet via Smart Dongle-WLAN-FE (Optional)
mart Dongle	4G / 3G / 2G via Smart Dongle-4G (Optional)
Monitoring BUS (MBUS)	Yes (Isolation Transformer required)
	General Data
oimensions (W x H x D)	640 x 530 x 270 mm (25.2 x 20.9 x 10.6 inch)
Veight (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.)
elative Humidity	0% RH ~ 100% RH
OC Connector	Amphenol HH4
.C Connector	Waterproof Connector + OT/DT Terminal
rotection Degree	IP 66
opology	Transformerless
lighttime Power Consumption	≤ 5.5W

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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