SUN2000-100KTL-M2

Smart PV Controller







10 MPP Trackers



98.8% (@480V) Max. Efficiency



String-level Management



Smart I-V Curve Diagnosis Supported



MBUS Supported



Support AFCI & Smart String Level Disconnector

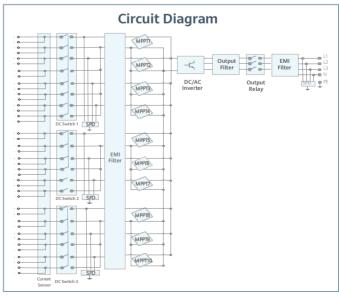


Surge Arresters for DC & AC



IP66 Protection





Technical Specification

SUN2000-100KTL-M2

Max. efficiency	98.6% @ 400 V, 98.8% @ 480 V
European efficiency	98.4% @ 400 V, 98.6% @ 480 V
an opean emelency	301776 (3007) 3010776 (3007)
	Input
Лах. Input Voltage ¹	1,100 V
Лах. Current per MPPT	30 A
Max. Current per Input ³	20 A
Max. Short Circuit Current per MPPT	40 A
start Voltage	200 V
MPPT Operating Voltage Range 2	200 V ~ 1,000 V
Nominal Input Voltage	600 V @ 400 Vac, 720 V @ 480 Vac
Number of MPP trackers	10
Max. input number per MPP tracker	2
	Output
Nominal AC Active Power	100,000 W
Max. AC Apparent Power	110,000 VA
Лах. AC Active Power (cosф=1)	110,000 W
Nominal Output Voltage	380 V/ 400 V/ 480 V, 3W+(N)+PE
Rated AC Grid Frequency	50 Hz / 60 Hz
Nominal Output Current	144.4 A @ 400 V, 120.3 A @ 480 V
Max. Output Current	160.4 A @ 400 V, 133.7 A @ 480 V
Adjustable Power Factor Range	0.8 leading 0.8 lagging
Max. Total Harmonic Distortion	< 3%
	Protection
nput-side Disconnection Device	Yes
Anti-islanding Protection	Yes
AC Overcurrent Protection	Yes
OC Reverse-polarity Protection	Yes
PV-array String Fault Monitoring	Yes
DC Surge Arrester	Type II
AC Surge Arrester	Type II
OC Insulation Resistance Detection	Yes
Residual Current Monitoring Unit Arc Fault Protection	Yes Yes
Smart String Level Disconnector	Yes
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	Communication
Display	LED indicators; WLAN adaptor + FusionSolar APP
RS485	Yes
JSB	Yes
Smart Dongle-4G	Smart Dongle – 4G / WLAN (Optional)
Monitoring BUS (MBUS)	Yes (isolation transformer required)
	General Data
Dimensions (W x H x D)	1,035 x 700 x 365 mm
Weight (with mounting plate)	≤93 kg
Operating Temperature Range	-25°C ~ 60°C
Cooling Method	Smart Air Cooling
Max. Operating Altitude	4,000 m (13,123 ft.)
Relative Humidity	0 ~ 100%
OC Connector	Amphenol Helios H4
AC Connector	Waterproof Connector + OT/DT Terminal
Protection Degree	IP66
Topology	Transformerless
Nighttime Power Consumption	< 3.5 W
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^{*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 Single-string access.

Grid Connection Standards

VDE-AR-N4105, EN 50549-1, EN 50549-2, RD 661, RD 1699, C10/11