## SUN2000-100KTL-M1

## **Smart PV Controller**







10 MPP Trackers



98.8% (@480V) Max. Efficiency



String-level Management



Smart I-V Curve Diagnosis Supported



MBUS Supported



Fuse Free Design

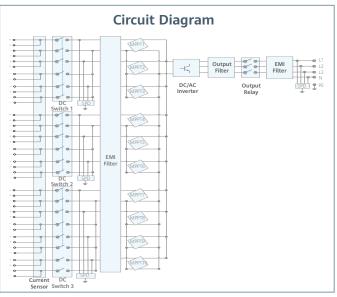


Surge Arresters for DC & AC



IP66 Protection





echnical Specification	SUN2000-100KTL-M1
	Efficiency
Max. efficiency	98.8% @480 V, 98.6% @380 V / 400 V
European efficiency	98.6% @480 V, 98.4% @380 V / 400 V
an opean emetericy	
May Innut Valtage 1	Input 1,100 V
Max. Input Voltage 1	
Max. Current per MPPT	26 A
Max. Short Circuit Current per MPPT	40 A
Start Voltage	200 V
MPPT Operating Voltage Range <sup>2</sup>	200 V ~ 1,000 V
Nominal Input Voltage Number of MPP trackers	720 V @480 Vac, 600 V @400 Vac, 570 V @380 Vac
Max. input number per MPP tracker	2
	Output
Nominal AC Active Power	100,000 W
Max. AC Apparent Power	110,000 VA
Max. AC Active Power (cosφ=1)	110,000 W
Nominal Output Voltage	480 V/ 400 V/ 380 V, 3W+(N)+PE
Rated AC Grid Frequency	50 Hz / 60 Hz
Nominal Output Current	120.3 A @480 V, 144.4 A @400 V, 152.0 A @380 V
Max. Output Current	133.7 A @480 V, 160.4 A @400 V, 168.8 A @380 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
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	Yes
Arc Fault Protection	Optional
	Communication
Display	Communication  LED indicators; WLAN adaptor + FusionSolar APP
RS485	Yes
JSB	Yes
Smart Dongle-4G	4G / 3G / 2G via Smart Dongle – 4G (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)	90 kg
Operating Temperature Range	-25°C ~ 60°C
Cooling Method	Smart Air Cooling
Max. Operating Altitude	4,000 m (13,123 ft.)
Relative Humidity	4,000 ft (13,123 ft.) 0 ~ 100%
DC Connector	0 ~ 100% Staubli MC4
AC Connector	Waterproof Connector + OT/DT Terminal
Protection Degree	Waterproof Connector + 01/D1 Terminat
Topology	Transformerless
Nighttime Power Consumption	< 3.5 W
vigitaline Fower Consumption	> 3.3 ¥¥
Certificate	Standard Compliance (more available upon request) EN 62109-1/-2, IEC 62109-1/-2, EN 50530, IEC 62116, IEC 61727, IEC 60068, IEC 61683

<sup>\*1</sup> 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.

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