### 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



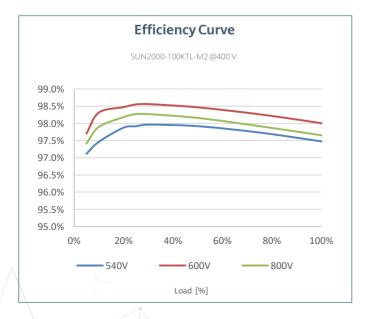
Support AFCI & Smart String Level Disconnector

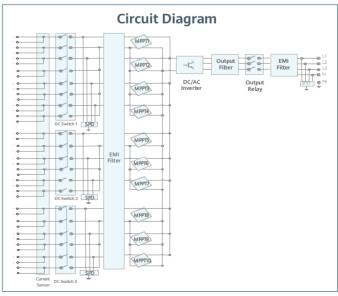


Surge Arresters for DC & AC



IP66 Protection





## **Technical Specification**

### **Technical Specification**

### SUN2000-100KTL-M2

cermeat specification	SONZOOO TOOKTE WIZ
	Efficiency
Max. efficiency	98.6% @ 400 V, 98.8% @ 480 V
European efficiency	98.4% @ 400 V, 98.6% @ 480 V
	Innut
May Innut Valtage 1	Input
Max. Input Voltage <sup>1</sup>	1,100 V
Max. Current per MPPT	30 A
Max. Current per Input <sup>3</sup>	20 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	600 V @ 400 Vac, 720 V @ 480 Vac
Number of MPP trackers	10
Max. input number per MPP tracker	2
	Outroot
	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	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
lands alda Diagona atlan Dada	
Input-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	Yes
Smart String Level Disconnector	Yes
	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)
	Canaval Data
Dimensions (W x H x D)	General Data 1,035 x 700 x 365 mm
Weight (with mounting plate)	1,035 x 700 x 303 Hilli ≤93 kq
	· ·
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%
DC Connector	Amphenol Helios H4
AC Connector	Waterproof Connector + OT/DT Terminal
Protection Degree	IP66
Topology	Transformerless
Nighttime Power Consumption	< 3.5 W
	Ctondard Compliance (many and labels
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
Grid Connection Standards	VDE-AR-N4105, EN 50549-1, EN 50549-2, RD 661, RD 1699, C10/11

\*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.

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