

SUN2000-100KTL-M1

Smart String Inverter



10
MPP-Tracker



98,8% (bei 480 V)
Max. Wirkungsgrad



String-Level-
Management



Smarte UI-
Kennliniendiagnose
Unterstützte



MBUS
Unterstützt



Sicherungs-
freies
Design

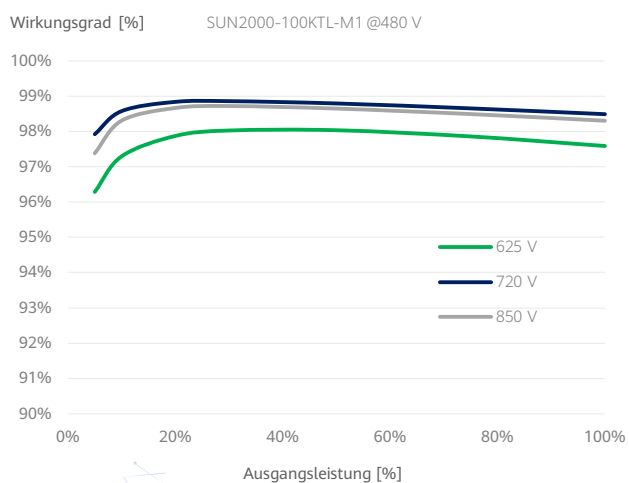


Überspannungsableiter
für DC & AC

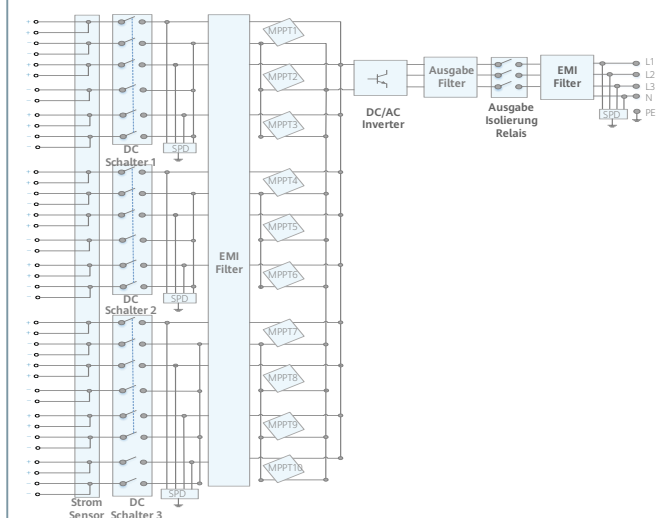


IP66
Schutz

Wirkungsgradkurve



Schaltplan



Technische Daten	SUN2000-100KTL-M1
Wirkungsgrad	
Max. Wirkungsgrad	98.8% @480 V, 98.6% @380 V / 400 V
Europäischer Wirkungsgrad	98.6% @480 V, 98.4% @380 V / 400 V
Eingang	
Max. Eingangsspannung ¹	1,100 V
Max. Strom pro MPPT	26 A
Max. Kurzschlussstrom pro MPPT	40 A
Startspannung	200 V
MPPT-Betriebsspannungsbereich ²	200 V ~ 1,000 V
Nenneingangsspannung	720 V @480 Vac, 600 V @400 Vac, 570 V @380 Vac
Anzahl der Eingänge	20
Anzahl der MPP-Tracker	10
Ausgang	
Nennleistung	100,000 W
Maximale Scheinleistung	110,000 VA
Max. AC-Wirkleistung (cosφ=1)	110,000 W
Nennausgangsspannung	480 V/ 400 V/ 380 V, 3W+(N)+PE
AC-Netzfrequenz	50 Hz / 60 Hz
Nennausgangsstrom	120.3 A @480 V, 144.4 A @400 V, 152.0 A @380 V
Max. Ausgangsstrom	133.7 A @480 V, 160.4 A @400 V, 168.8 A @380 V
Einstellbare Leistungsfaktor	0.8 kap. ... 0.8 ind.
Klirrfaktor (THD)	< 3%
Schutzeinrichtungen	
DC Lasttrennschalter	Ja
Inselnetzerkennung	Ja
AC-Überstromschutz	Ja
DC-Verpolungsschutz	Ja
String Überwachung	Ja
DC-Überspannungsableiter	Type II
AC-Überspannungsableiter	Type II
Isolationsüberwachung	Ja
Fehlerstromüberwachung	Ja
Kommunikation	
Anzeige	Status LED's, WLAN + APP
RS485	Ja
USB	Ja
Monitoring BUS (MBUS)	Ja (Trenntransformator erforderlich)
Allgemeine Daten	
Abmessungen (B x H x T)	1,035 x 700 x 365 mm
Gewicht (mit Montageplatte)	90 kg
Betriebstemperaturbereich	-25°C ~ 60°C
Kühlungsmethode	Intelligente Luftkühlung
Max. Betriebshöhe	4,000 m
Relative Luftfeuchtigkeit	0 ~ 100%
DC-Anschluss	Staubli MC4
AC-Anschluss	Kabelschuhe auf Anschlussbolzen
Schutzart (nach IEC 60529)	IP66
Topologie	Transformatorlos
Energieverbrauch nachts	< 3.5 W
Normenkonformität (weitere auf Anfrage erhältlich)	
Normen	EN 62109-1/-2, IEC 62109-1/-2, EN 50530, IEC 62116, IEC 61727, IEC 60068, IEC 61683
Netzanschlussbedingungen	VDE-AR-N4105, EN 50549-1, EN 50549-2, RD 661, RD 1699, C10/11

*1. Die maximale Eingangsspannung ist die Obergrenze der Gleichspannung. Jede höhere Eingangsgleichspannung würde wahrscheinlich Inverter beschädigen.

*2. Jede DC-Eingangsspannung über den Betriebsspannungsbereich führen kann Inverter fehlerhaften Betrieb.

Version Nr. 02-(20190512)

SOLAR.HUAWEI.COM/DE/

SUN2000-185KTL-H1

Smart String Inverter



**9
MPP Trackers**



**99.0%
Max. Efficiency**



**String-level
Management**



**Smart I-V Curve
Diagnosis Supported**



**MBUS
Supported**



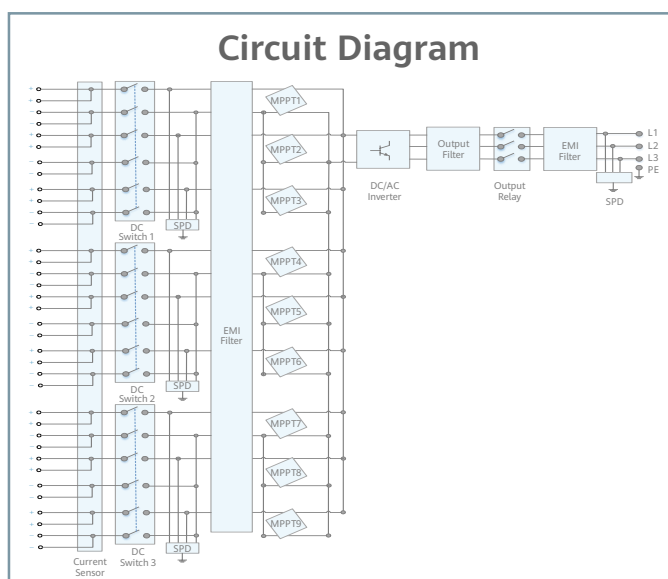
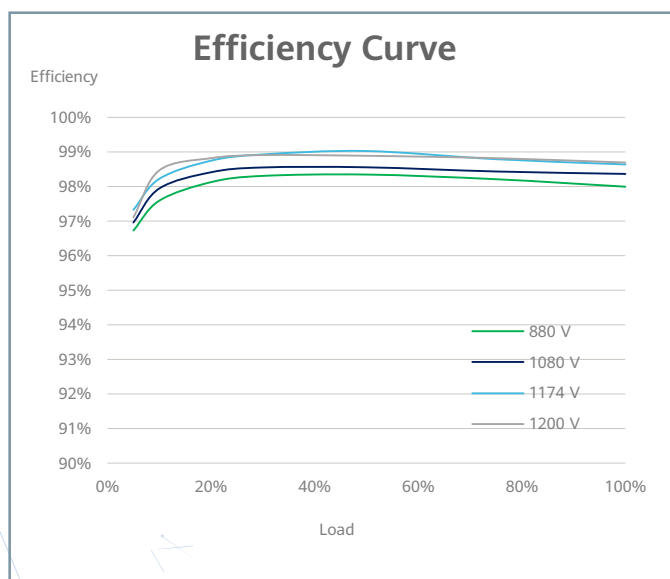
**Fuse Free
Design**



**Surge Arresters
for DC & AC**



**IP66
Protection**



Technical Specifications

Efficiency	
Max. Efficiency	99.03%
European Efficiency	98.69%
Input	
Max. Input Voltage	1,500 V
Max. Current per MPPT	26 A
Max. Short Circuit Current per MPPT	40 A
Start Voltage	550 V
MPPT Operating Voltage Range	500 V ~ 1,500 V
Nominal Input Voltage	1,080 V
Number of Inputs	18
Number of MPP Trackers	9
Output	
Nominal AC Active Power	175,000 W @40°C, 168,000 W @45°C, 160,000 W @50°C
Max. AC Apparent Power	185,000 VA
Max. AC Active Power (cosφ=1)	185,000 W
Nominal Output Voltage	800 V, 3W + PE
Rated AC Grid Frequency	50 Hz / 60 Hz
Nominal Output Current	126.3 A @40°C, 121.3 A @45°C, 115.5 A @50°C
Max. Output Current	134.9 A
Adjustable Power Factor Range	0.8 LG ... 0.8 LD
Max. Total Harmonic Distortion	< 3%
Protection	
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
Communication	
Display	LED Indicators, WLAN + APP
USB	Yes
MBUS	Yes
RS485	Yes
General	
Dimensions (W x H x D)	1,035 x 700 x 365 mm (40.7 x 27.6 x 14.4 inch)
Weight (with mounting plate)	84 kg (185.2 lb.)
Operating Temperature Range	-25°C ~ 60°C (-13°F ~ 140°F)
Cooling Method	Smart Air Cooling
Max. Operating Altitude without Derating	4,000 m (13,123 ft.)
Relative Humidity	0 ~ 100%
DC Connector	Staubli MC4 EVO2
AC Connector	Waterproof Connector + OT/DT Terminal
Protection Degree	IP66
Topology	Transformerless
Standard Compliance (more available upon request)	
Certificates	EN 62109-1/-2, IEC 62109-1/-2, EN 50530, IEC 62116, IEC 60068, IEC 61683, IEC 61727, P.O. 12.3, RD 1699, RD 661, RD 413, RD 1565, RD 1663, UNE 206007-1, UNE 206006

SUN2000-215KTL-H0

Smart String Inverter



9
MPP Trackers



Max. Efficiency
≥99.0%



Smart String-Level
Disconnecter



Smart I-V Curve
Diagnosis Supported



MBUS
Supported



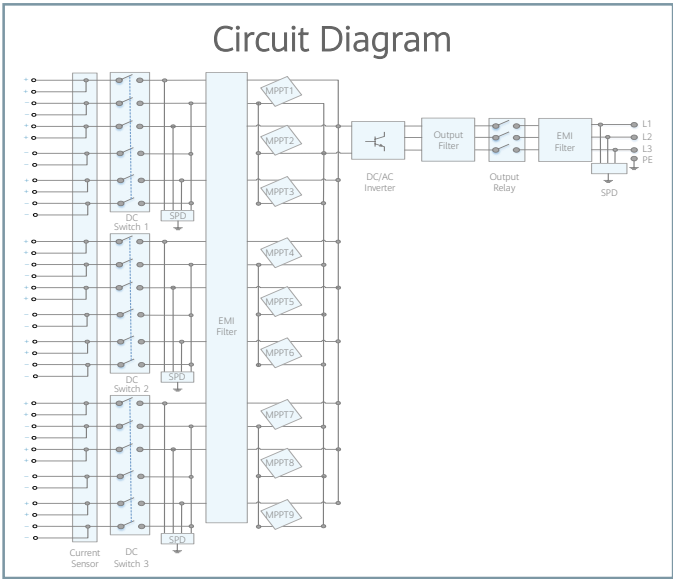
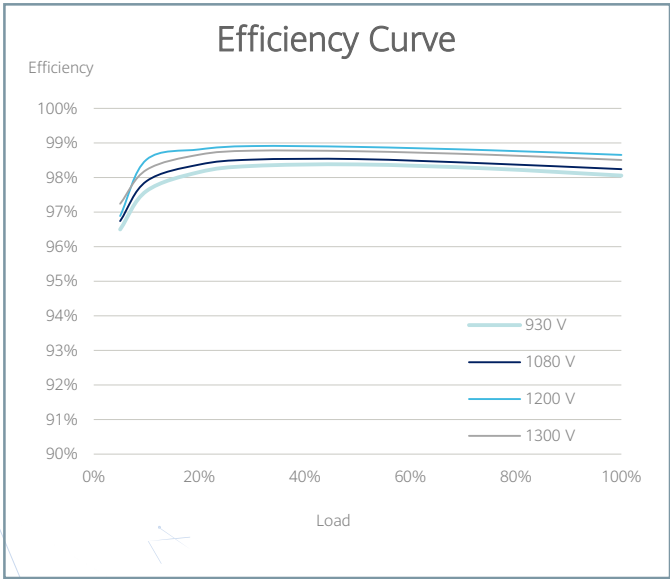
Fuse Free
Design



Surge Arresters for
DC & AC



IP66
Protection



Technical Specifications

Efficiency	
Max. Efficiency	99.00%
European Efficiency	98.80%
Input	
Max. Input Voltage	1,500 V
Max. Current per MPPT	30 A
Max. Short Circuit Current per MPPT	50 A
Start Voltage	550 V
MPPT Operating Voltage Range	500 V ~ 1,500 V
Nominal Input Voltage	1,080 V
Number of Inputs	18
Number of MPP Trackers	9
Output	
Nominal AC Active Power	200,000 W
Max. AC Apparent Power	215,000 VA
Max. AC Active Power ($\cos\phi=1$)	215,000 W
Nominal Output Voltage	800 V, 3W + PE
Rated AC Grid Frequency	50 Hz / 60 Hz
Nominal Output Current	144.4 A
Max. Output Current	155.2 A
Adjustable Power Factor Range	0.8 LG ... 0.8 LD
Max. Total Harmonic Distortion	< 3%
Protection	
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
Communication	
Display	LED Indicators, WLAN + APP
USB	Yes
MBUS	Yes
RS485	Yes
General	
Dimensions (W x H x D)	1,035 x 700 x 365 mm (40.7 x 27.6 x 14.4 inch)
Weight (with mounting plate)	≤86 kg (189.6 lb.)
Operating Temperature Range	-25°C ~ 60°C (-13°F ~ 140°F)
Cooling Method	Smart Air Cooling
Max. Operating Altitude without Derating	4,000 m (13,123 ft.)
Relative Humidity	0 ~ 100%
DC Connector	Staubli MC4 EVO2
AC Connector	Waterproof Connector + OT/DT Terminal
Protection Degree	IP66
Topology	Transformerless

SUN2000-215KTL-H3

Smart String Inverter



100A
Per MPPT



Max. Efficiency
≥99.0%



Smart String-Level
Disconnect



Smart I-V Curve
Diagnosis Supported



MBUS
Supported



Fuse Free
Design

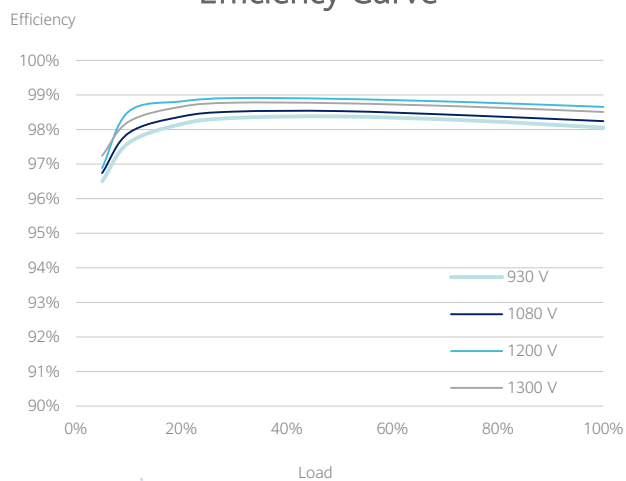


Surge Arresters for
DC & AC

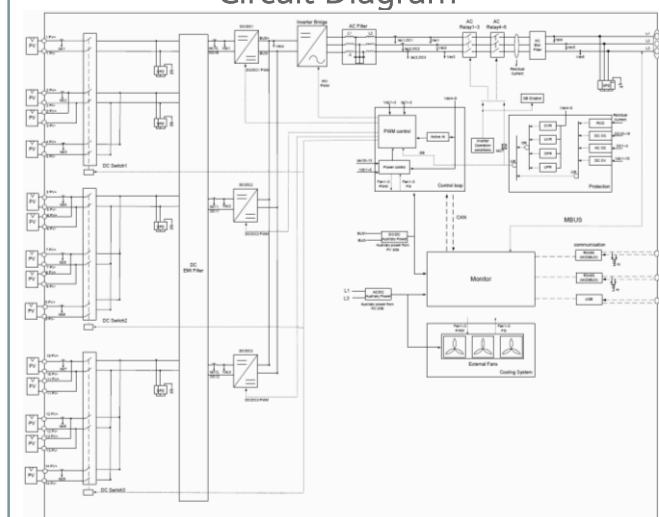


IP66
Protection

Efficiency Curve



Circuit Diagram



Technical Specifications

Efficiency	
Max. Efficiency	≥99.0%
European Efficiency	≥98.8%
Input	
Max. Input Voltage	1,500 V
Number of MPP Trackers	3
Max. Current per MPPT	100A/100A/100A
Max. PV Inputs per MPPT	4/5/5
Start Voltage	550 V
MPPT Operating Voltage Range	500 V ~ 1,500 V
Nominal Input Voltage	1,080 V
Output	
Nominal AC Active Power	200,000 W
Max. AC Apparent Power	215,000 VA
Max. AC Active Power (cosφ=1)	215,000 W
Nominal Output Voltage	800 V, 3W + PE
Rated AC Grid Frequency	50 Hz / 60 Hz
Nominal Output Current	144.4 A
Max. Output Current	155.2 A
Adjustable Power Factor Range	0.8 LG ... 0.8 LD
Max. Total Harmonic Distortion	< 1%
Protection	
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
Communication	
Display	LED Indicators, WLAN + APP
USB	Yes
MBUS	Yes
RS485	Yes
General	
Dimensions (W x H x D)	1,035 x 700 x 365 mm (40.7 x 27.6 x 14.4 inch)
Weight (with mounting plate)	≤86 kg (191.8 lb.)
Operating Temperature Range	-25°C ~ 60°C (-13°F ~ 140°F)
Cooling Method	Smart Air Cooling
Max. Operating Altitude without Derating	4,000 m (13,123 ft.)
Relative Humidity	0 ~ 100%
DC Connector	Staubli MC4 EVO2
AC Connector	Waterproof Connector + OT/DT Terminal
Protection Degree	IP66
Topology	Transformerless