

SUN2000-215KTL-H0

Smart String Inverter



9
MPP Trackers



99.0%
Max. Efficiency



String-level
Management



Smart I-V Curve
Diagnosis Supported



MBUS
Supported



Fuse Free
Design

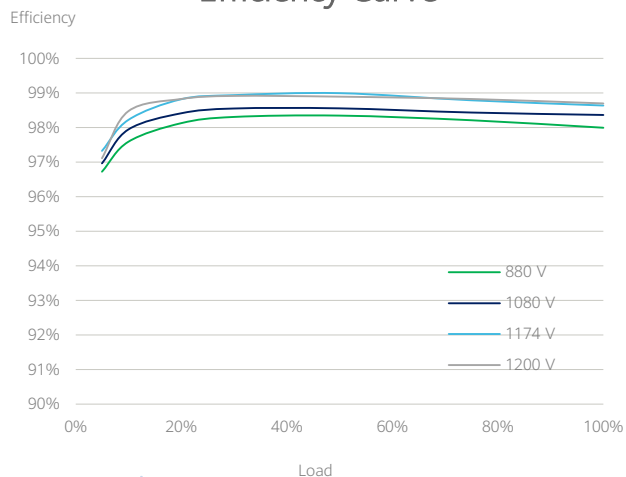


Surge Arresters for
DC & AC

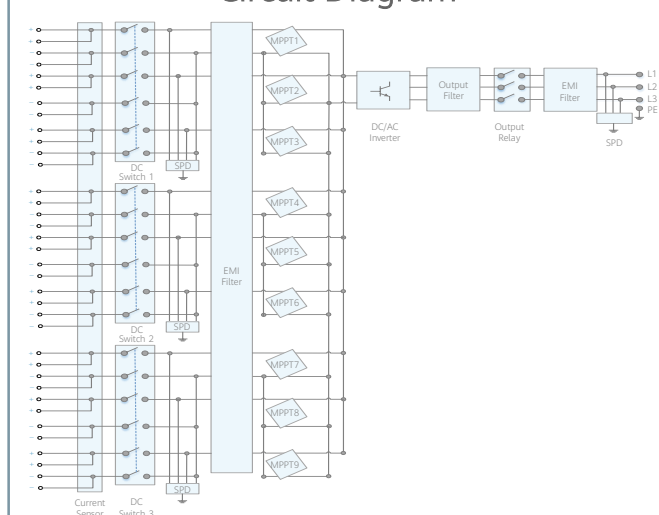


IP66
Protection

Efficiency Curve



Circuit Diagram



Technical Specifications

Efficiency	
Max. Efficiency	≥99.00%
European Efficiency	≥98.60%
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 (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 (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

Smart String Inverter

SUN2000-100KTL-H1



Smart

- 12 strings intelligent monitoring and fast trouble-shooting
- Power Line Communication (PLC) supported
- Smart I-V Curve Diagnosis supported

Efficient

- Max. efficiency 99.0%,
- European efficiency 98.8%
- 6 MPPT per unit, effectively reducing string mismatch

Safe

- DC switch integrated, safe and convenient for maintenance
- Residual Current Monitoring Unit (RCMU) integrated
- Fuse free design

Reliable

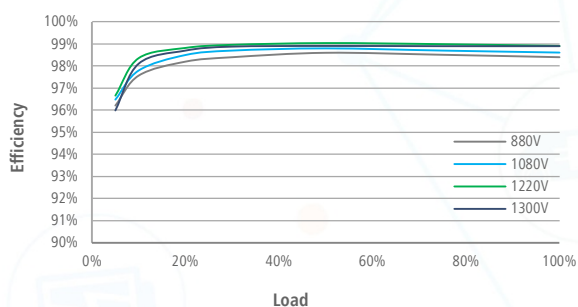
- Natural cooling technology
- Protection degree of IP65
- Type II surge arresters for both DC and AC

Smart String Inverter (SUN2000-100KTL-H1)

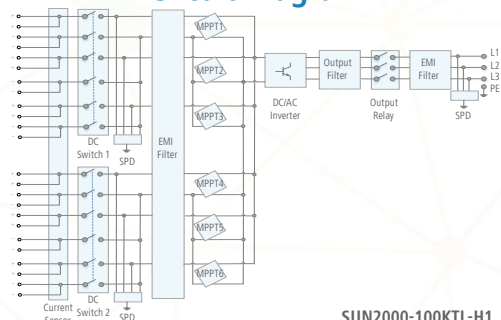


Technical Specifications		SUN2000-100KTL-H1
		Efficiency
Max. Efficiency		99.0%
European Efficiency		98.8%
		Input
Max. Input Voltage		1,500 V
Max. Current per MPPT		22 A
Max. Short Circuit Current per MPPT		33 A
Start Voltage		650 V
MPPT Operating Voltage Range		600 V ~ 1,500 V
Rated Input Voltage		1,080 V
Number of Inputs		12
Number of MPP Trackers		6
		Output
Rated AC Active Power		100,000 W
Max. AC Apparent Power		105,000 VA
Max. AC Active Power (cosφ=1)		105,000 W
Rated Output Voltage		800 V, 3W + PE
Rated AC Grid Frequency		50 Hz / 60 Hz
Rated Output Current		72.2 A
Max. Output Current		80.2 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, Bluetooth + APP
RS485		Yes
USB		Yes
Power Line Communication (PLC)		Yes
		General
Dimensions (W x H x D)		1,075 x 605 x 310 mm (42.3 x 23.8 x 12.2 inch)
Weight (with mounting plate)		77 kg (169.8 lb.)
Operating Temperature Range		-25°C ~ 60°C (-13°F ~ 140°F)
Cooling Method		Natural Convection
Max. Operating Altitude		4,000 m (13,123 ft.)
Relative Humidity		0 ~ 100%
DC Connector		Amphenol UTX
AC Connector		Waterproof PG Terminal + Terminal Clamp
Protection Degree		IP65
Topology		Transformerless
		Standard Compliance (more available upon request)
Certificate		EN 62109-1/-2, IEC 62109-1/-2, EN 50530, IEC 62116, IEC 60068, IEC 61683
Grid Code		IEC 61727, UTE C 15-712-1, RD 413, RD 1699, RD 661, P.O. 12.3, UNE 206007-1 IN, UNE 2006006 IN

Efficiency Curve



Circuit Diagram



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