SUN2000-100KTL-M1 Smart PV Controller









Smart I-V Curve Diagnosis supported



Efficient

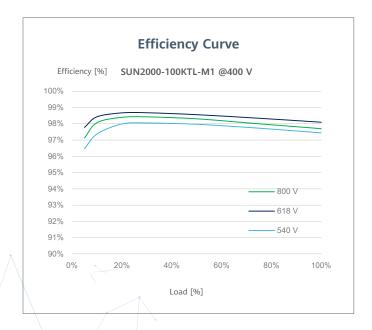
Max. efficiency 98.8%

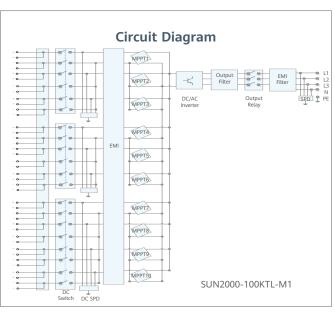


Safe



Reliable





SUN2000-100KTL-M1 **Technical Specification**

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
	Input
Max. Input Voltage	1,100 V
Max. Current per MPPT	26 A
Max. Short Circuit Current per MPPT	40 A
Start Voltage	200 V
MPPT Operating Voltage Range	200 V ~ 1,000 V
Rated Input Voltage	570 V @380 V; 600 V @400 V; 720 V @480 V
Number of Inputs	20
Number of MPP Trackers	10
	Output
Rated AC Active Power	100,000 W (380 V / 400 V / 480 V @40°C)
Max. AC Active Power (cost=1)	110,000 VA
Max. AC Active Power (cosφ=1)	110,000 W
Rated Output Voltage	220 V / 230 V, default 3W + N + PE; 380 V / 400 V / 480 V, 3W + PE
Rated AC Grid Frequency	50 Hz / 60 Hz
Rated Output Current	152.0 A @380 V; 144.4 A @400 V; 120.3 A @480 V
Max. Output Current	168.8 A @380 V; 160.4 A @400 V; 133.7 A @480 V
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
	Community
Display	Communication LED Indicators, APP
RS485	Yes
USB	Yes
MBUS	Yes (isolation transformer required)
IVIDUS	res (isotation transformer required)
	General Data
Dimensions (W x H x D)	1,035 x 700 x 365mm (40.7 x 27.6x 14.4 inch)
Weight (with mounting plate)	90 kg (187.4 lb.)
Operating Temperature Range	-25°C ~ 60°C (-13°F ~ 140°F)
Cooling Method	Smart Air Cooling
Max. Operating Altitude	4,000 m (13,123 ft.)
Relative Humidity	0 ~ 100%
DC Connector	Staubli MC4
AC Connector	Waterproof Connector + OT/DT Terminal
Protection Degree	IP66
Topology	Transformerless
Night Time Power Consumption	≤ 3.5 W
raight fille rower Consumption	≥ 3.J YV
	Standard Compliance (more available upon request)
Safety	Standard Compliance (more available upon request) EN 62109-1/-2, IEC 62109-1/-2, IEC 62116