

SUN2000-100KTL-M1

Smart PV Controller



Smart



Efficient

Smart I-V Curve Diagnosis supported

Max. efficiency 98.8%



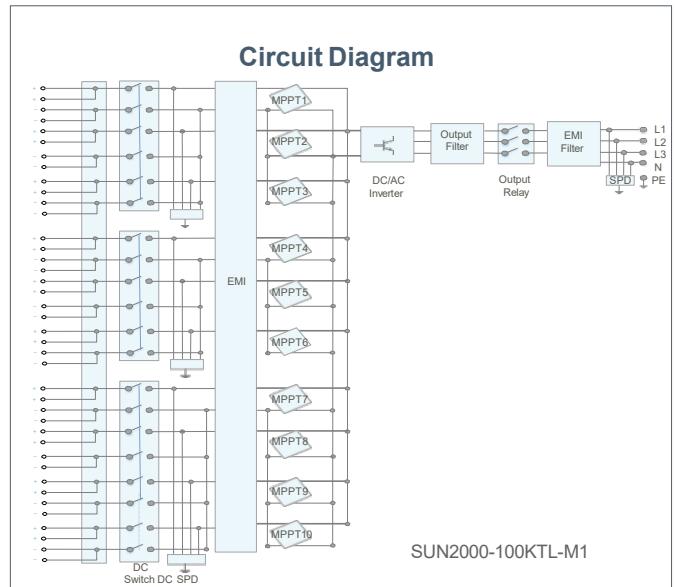
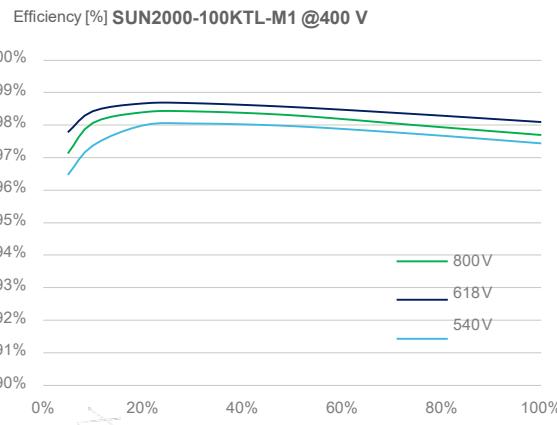
Safe

Fuse free design



Reliable

Type II surge arresters for DC & AC



SUN2000-100KTL-M1
Technical Specification

Technical Specification		SUN2000-100KTL-M1
		Efficiency
Max. Efficiency		98.8%
European Efficiency		98.6%
		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		600 V
Number of Inputs		20
Number of MPP Trackers		10
		Output
Rated AC Active Power		100,000 W
Rated AC Apparent power		100,000 VA
Max. AC Apparent Power		110,000 VA
Max. AC Active Power ($\cos\phi=1$)		110,000 W
Rated Output Voltage		400 V, 3W + PE
Rated AC Grid Frequency		50 Hz / 60 Hz
Rated Output Current		144.4 A
Max. Output Current		160.4 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/WLAN + APP
RS485		Yes
USB		Yes
MBUS		Yes (isolation 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
Nighttime Power Consumption		≤ 3.5 W
Country of Manufacture		China
		Standard Compliance (more available upon request)
Safety		EN/IEC 62109-1, EN/IEC 62109-2, IEC 62116
Grid Connection Standards		AS/NZS 4777.2 2020