

SUN2000-36KTL

Smart PV Controller



Smart

8 strings intelligent monitoring



Efficient

Max. efficiency 98.6%



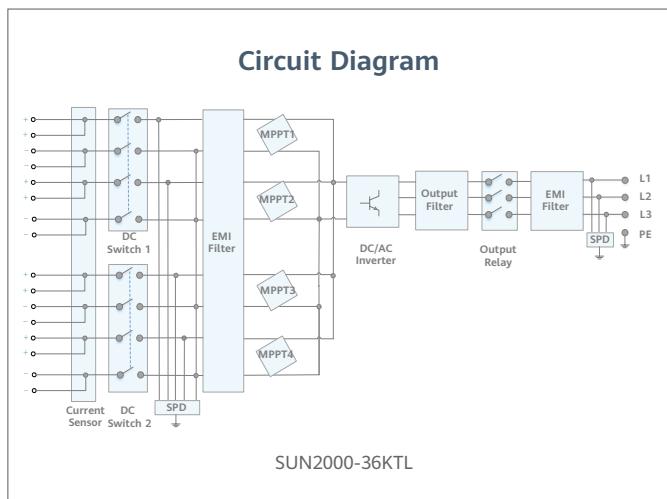
Safe

Fuse free design



Reliable

Type II surge arresters for DC & AC



SUN2000-36KTL
Technical Specification

Technical Specification		SUN2000-36KTL
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		1,100 V
Max. Current per MPPT		22 A
Max. Short Circuit Current per MPPT		30 A
Start Voltage		250 V
MPPT Operating Voltage Range ²		200 V ~ 1,000 V
Rated Input Voltage		620 V @380 Vac / 400 Vac; 720 V @480 Vac
Number of MPP trackers		4
Max. input number per MPP tracker		2
		Output
Rated AC Active Power		36,000 W
Max. AC Apparent Power		40,000 VA ³
Max. AC Active Power (cosφ=1)		Default 40,000 W; 36,000 W optional in settings
Rated Output Voltage		220 V / 380 V, 230 V / 400 V, default 3W + N + PE; 3W + PE optional in settings 277 V / 480 V, 3W + PE
Rated AC Grid Frequency		50 Hz / 60 Hz
Rated Output Current		54.6 A @380 V, 52.2 A @400 V, 43.4 A @480 V
Max. Output Current		60.8 A @380 V, 57.8 A @400 V, 48.2 A @480 V
Adjustable Power Factor Range		0.8 leading... 0.8 lagging
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 adaptor + FusionSolar APP
RS485		Yes
USB		Yes
Monitoring BUS (MBUS)		Yes (isolation transformer required)
		General Data
Dimensions (W x H x D)		930 x 550 x 283 mm (36.6 x 21.7 x 11.1 inch)
Weight (with mounting plate)		62 kg (136.7 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 Helios H4
AC Connector		Waterproof PG Terminal + OT Connector
Protection Degree		IP65
Topology		Transformerless
Nighttime Power Consumption		< 2.5 W
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, VDE-AR-N4105, VDE 0126-1-1, BDEW, G59/3, UTE C 15-712-1, CEI 0-16, CEI 0-21, RD 661, RD 1699, P.O. 12.3, RD 413, EN-50438-Turkey, EN-50438-Ireland, C10/11, MEA, Resolution No.7, NRS 097-2-1, AS/NZS 4777.2	

¹The maximum input voltage is the upper limit of the DC voltage. Any higher input DC voltage would probably damage inverter.

²Any DC input voltage beyond the operating voltage range may result in inverter improper operating.

³The maximum active power is determined by PQ mode setting. If PQ mode 1 is selected, the maximum active power equals the maximum apparent power. If PQ mode 2 is selected, the maximum active power equals the rated active power.