

SUN2000-36KTL Smart String Inverter



Smart

8 strings intelligent monitoring



Efficient

Max. efficiency 98.6%



Safe

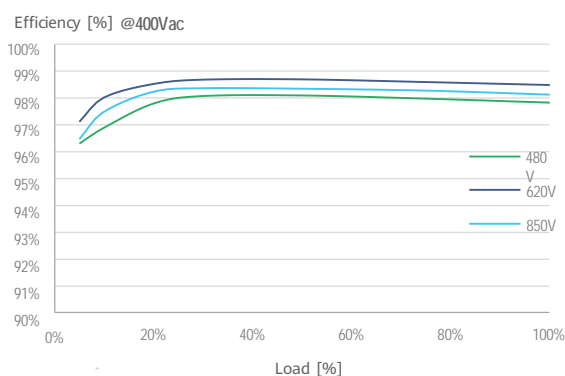
Fuse free design



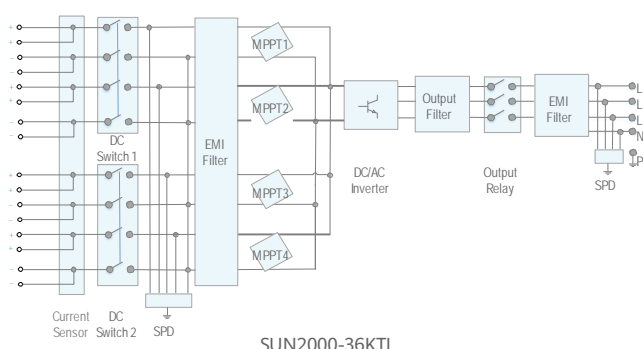
Reliable

Type II surge arresters for DC & AC

Efficiency Curve



Circuit Diagram



SUN2000-36KTL

Technical Specification

Technical Specification		SUN2000-36KTL	
Efficiency			
Max. Efficiency	98.6%		
European Efficiency	98.4%		
Input			
Max. Input Voltage	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	200 V ~ 1,000 V		
Rated Input Voltage	620 V		
Number of Inputs	8		
Number of MPP Trackers	4		
Output			
Rated AC Active Power	36,000 W		
Max. AC Apparent Power	40,000 VA		
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 (only for Central Latin America)		
Rated AC Grid Frequency	50 Hz / 60 Hz		
Rated Output Current	54.6 A @380 V, 52.2 A @400 V, 43.4 A @480V		
Max. Output Current	60.8 A @380 V, 57.8 A @400 V, 48.2 A @480V		
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, Bluetooth/WLAN + APP		
RS485	Yes		
USB	Yes		
Monitoring BUS (MBUS)	Yes		
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	Cable Gland + OT Terminal		
Protection Degree	IP65		
Topology	Transformerless		
Nighttime Power Consumption	< 2.5 W		
Standard Compliance			
Safety	EN 62109-1/-2, IEC 62109-1/-2		
Grid Code	ABNT, IEC 61727, IEC 62116, 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, PEA, Resolution No.7, NRS 097-2-1, DEWA, AS/NZS 4777.2, EN 50530, IEC 60068, IEC 61683		