

Smart String Inverter

SUN2000-36KTL with AFCI



Smart

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



Efficient

- Max. efficiency 98.8%, European efficiency 98.6% (@480 V)
- Max. efficiency 98.6%, European efficiency 98.4% (@380 V / 400 V)
- 4 MPPT per unit, effectively reducing string mismatch



Safe

- DC AFCI compliant to UL 1699B Type I
- 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

Preliminary Version, For project evaluation only

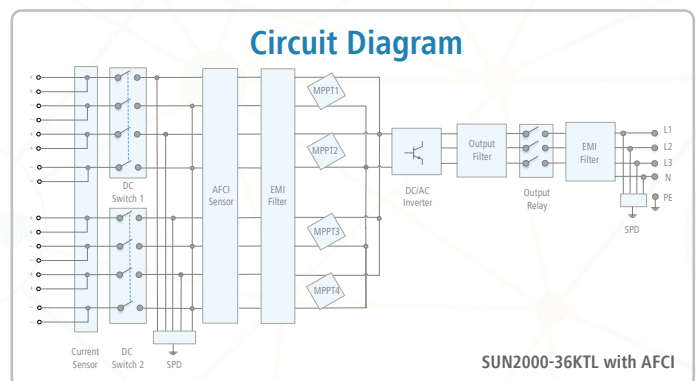
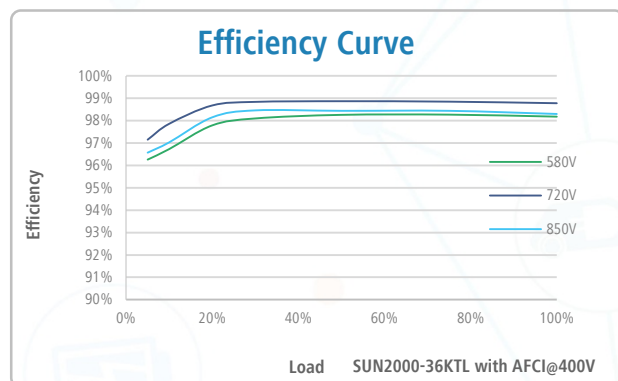
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Smart String Inverter (SUN2000-36KTL with AFCI)



Technical Specifications		SUN2000-36KTL with AFCI
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		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 @380 V / 400 V; 720 V @480 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
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 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
Arc-fault Circuit Interrupter (AFCI)		Type I
Communication		
Display		LED Indicators, Bluetooth + APP
USB		Yes
RS485		Yes
Power Line Communication (PLC)		Yes
General		
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 Rating		IP65
Topology		Transformerless



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