

Smart String Inverter

SUN2000-33KTL-A



Smart

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

Efficient

- Max. efficiency 98.6%
- European efficiency 98.4%
- 4 MPPT per unit, effectively reducing string mismatch

Safe

- DC disconnect integrated, safe and convenient for maintenance
- Residual Current Monitoring Unit (RCMU) integrated inside
- Fuse free design

Reliable

- Natural cooling technology
- Protection rating of IP65
- Type II surge arresters for both DC and AC

Smart String Inverter (SUN2000-33KTL-A)



Technical Specifications	SUN2000-33KTL-A
	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 ~ 1000 V
Rated Input Voltage	620 V
Max. Number of Inputs	8
Number of MPP Trackers	4
	Output
Rated AC Active Power	30,000 W
Max. AC Apparent Power	33,000 VA
Max. AC Active Power (cosφ=1)	30,000 W
Rated Output Voltage	230V / 400V, default 3W+N+PE;
Rated AC Grid Frequency	50 Hz / 60 Hz
Rated Output Current	43.3 A
Max. Output Current	48 A
Adjustable Power Factor	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
Insulation Detection	Yes
Residual Current Monitoring Unit	Yes
	Communication
Display	LED Indicators, Bluetooth + APP
USB	Yes
RS485	Yes
PLC	Yes
	General
Dimensions (W×H×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.)
Operation Temperature Range	-25 °C ~ 60 °C (-13°F ~ 140°F)
Cooling	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
	Standard Compliance (more available upon request)
Certificate	EN 62109-1/-2, IEC 62109-1/-2, IEC62116
Grid Code	IEC 61727, NB/T 32004-2013, VDE-AR-N-4105, VDE 0126-1-1, BDEW, G59/3, UTE C 15-712-1, CEI 0-16, CEI 0-21, C10/11, EN 50438-Turkey

