

Smart String Inverter

SUN2000-29.9KTL



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 switch integrated, safe and convenient for maintenance
- 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

Smart String Inverter (SUN2000-29.9KTL)

Technical Specifications		SUN2000-29.9KTL
		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		29,900 W
Max. AC Apparent Power		29,900 VA
Max. AC Active Power ($\cos\phi=1$)		29,900 W
Rated Output Voltage		400 V, 3W + N + PE
Rated AC Grid Frequency		50 Hz / 60 Hz
Rated Output Current		43.2 A
Max. Output Current		43.2 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 + APP
RS485		Yes
USB		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		Cable Gland + OT Terminal
Protection Degree		IP65
Topology		Transformerless
		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, AS/NZS 4777.2

