

Smart String Inverter

SUN2000-55KTL-IN-HV-D1



Smart

- 8 strings intelligent monitoring and fast trouble-shooting
- Power Line Carrier Communication (PLCC) supported

Efficient

- Max. efficiency 99.0%, European efficiency 98.8%
- 4 MPPTs for versatile adaptations to different layouts

Safe

- DC disconnect integrated, safe and convenient for maintenance
- Type II surge arresters for both DC and AC
- Residual Current Monitoring Unit (RCMU) integrated inside
- Fuse free design

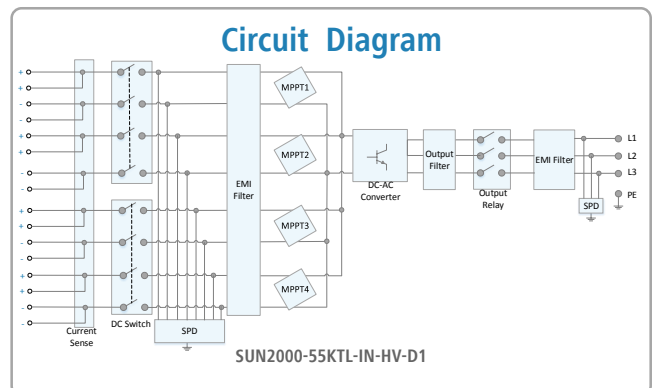
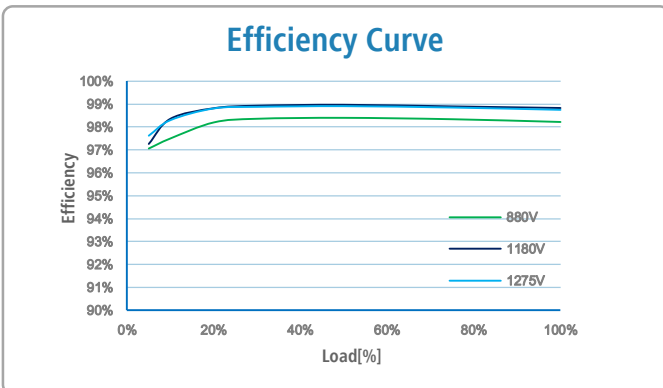
Reliable

- Natural cooling technology
- Protection rating of IP65

Smart String Inverter (SUN2000-55KTL-IN-HV-D1)



Technical Specifications	SUN2000-55KTL-IN-HV-D1
	Efficiency
Max. Efficiency	99.00%
European Efficiency	98.80%
	Input
Max. Input Voltage	1,500 V
Max. Current per MPPT	22 A
Max. Short Circuit Current per MPPT	30 A
Start Input Voltage	650 V
MPPT Operating Voltage Range	600V ~ 1,450V
Rated Input Voltage	1,080V
Max.Number of Inputs	8
Number of MPP Trackers	4
	Output
Rated AC Active Power	55,000 W
Max.AC Apparent Power	66,000 VA
Max.AC Active Power(cosφ=1)	66,000 W
Rated Output Voltage	800 Vac, 3W+PE
Rated Output Current	39.7 A
Rated AC Grid Frequency	50 Hz / 60 Hz
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 Monitoring	Yes
Residual Current Monitoring Unit	Yes
	Communication
Display	LED Indicators, Bluetooth + APP
USB	Yes
RS485	Yes
Power Line Carrier Communication (PLCC)	Yes
	General
Dimensions(W x H x D)	930 x 600 x 270 mm (36.6 x 23.6 x 10.6 inch)
Weight (with mounting plate)	62kg (136.7lb.)
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 UTX
AC Connector	Waterproof PG Terminal + OT Connector
Protection Rating	IP65
Topology	Transformerless
	Standards Compliance
Safety	EN/IEC 62109-1, EN/IEC 62109-2
Grid Code	IEC 61727, IEC 62116



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