

Smart String Inverter

SUN2000-45KTL-US-HV-D0



Smart

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

Efficient

- Max. efficiency 98.7%
- CEC. efficiency 98.5%
- 4 MPPT per unit, effectively reducing string mismatch

Safe

- DC AFCI compliant to UL 1699B Type I
- Residual Current Monitoring Unit (RCMU) integrated inside
- Fuse free design

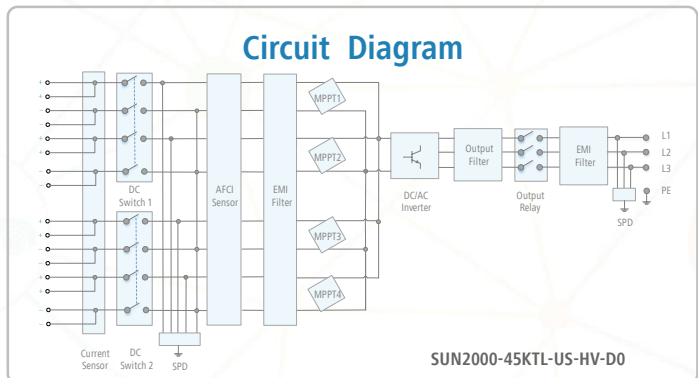
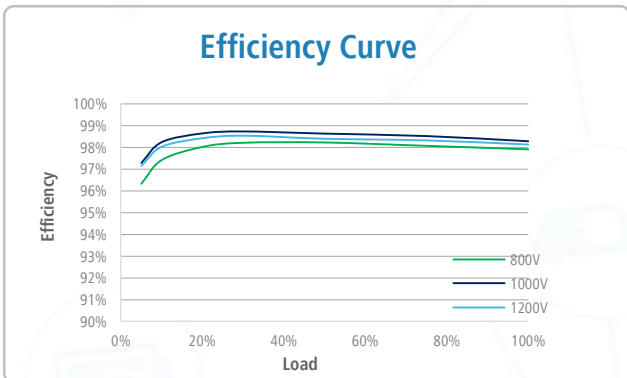
Reliable

- Natural cooling technology
- Protection degree of Type 4X
- Type II surge arresters for both DC and AC

Smart String Inverter (SUN2000-45KTL-US-HV-D0)



Technical Specifications	SUN2000-45KTL-US-HV-D0
	Efficiency
Max. Efficiency	98.7%
CEC. Efficiency	98.5%
	Input
Max. Input Voltage	1,500 V
Max. Current per MPPT	22 A
Max. Short Circuit Current per MPPT	30 A
Start Voltage	650 V
MPPT Operating Voltage Range	600 V ~ 1,450 V
Number of Inputs	8
Number of MPP Trackers	4
	Output
Rated AC Active Power	45,000 W
Max. AC Apparent Power	50,000 VA
Max. AC Active Power (cosφ=1)	50,000 W
Rated Output Voltage	600 V, 3W + PE
Rated AC Grid Frequency	60 Hz
Rated Output Current	43.3 A
Max. Output Current	48 A
Adjustable Power Factor Range	0.8 LG ... 0.8 LD
Max. Total Harmonic Distortion	< 3%
	Protection
DC Arc Fault Circuit Interrupter	Yes, compliant to UL 1699B Type I
Input-side Disconnection Device	Yes
Anti-islanding Protection	Yes
DC Reverse-polarity Protection	Yes
AC Overcurrent 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
USB	Yes
RS485	Yes
Power Line Communication (PLC)	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)	64 kg (141 lb.)
Operating Temperature Range	-25°C ~ 60°C (-13°F ~ 140°F)
Cooling Method	Natural Convection
Relative Humidity	0 ~ 100%
DC Connector	Amphenol Helios H4
AC Connector	Waterproof PG Terminal + OT Connector
Protection Degree	Type 4X
Topology	Transformerless
	Standard Compliance (more available upon request)
Certificate	UL 1741, UL 1699B, UL 1741 SA, CSA C22.2 #107.1-01, FCC Part 15
Grid Code	IEEE 1547, IEEE 1547a



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