

Smart String Inverter

SUN2000-25/30KTL-US



Smart

- 3 MPPTs for versatile adaptations to different layouts
- 6 strings intelligent monitoring and fast trouble-shooting
- Power Line Communication (PLC) supported

Efficient

- Max. efficiency 98.6%
- CEC. efficiency 98.0%

Safe

- DC AFCI compliant to UL 1699B Type I
- Type II surge arresters for both DC and AC
- Residual Current Detection (RCD) protection

Reliable

- Natural cooling technology
- Fuse free design
- Protection rating of NEMA Type 4X

Smart String Inverter (SUN2000-25/30KTL-US)



Technical Specifications	SUN2000-25KTL-US	SUN2000-30KTL-US
	Efficiency	
Max. Efficiency	98.6%	98.6%
CEC Efficiency	98.0%	98.0%
	Input	
Max. Input Voltage	1,000 V	1,000 V
Max. Current per MPPT	25 A	25 A
Max. Short Circuit Current per MPPT	33 A	33 A
Start Voltage	250 V	250 V
Full Power MPPT Voltage Range	560 V ~ 850 V	560 V ~ 850 V
MPPT Operating Voltage Range	250 V ~ 950 V	250 V ~ 950 V
Max. Number of Inputs	6	6
Number of MPP Trackers	3	3
	Output	
Rated AC Active Power	25,000 W	30,000 W
Max. AC Apparent Power	27,500 VA	33,000 VA
Max. AC Active Power (cosφ=1)	25,000 W	30,000 W
Rated Output Voltage	480 Vac, 3W+PE / 3W+N+PE	480 Vac, 3W+PE / 3W+N+PE
Rated AC Grid Frequency	60 Hz	60 Hz
Max. Output Current	33 A	40 A
Adjustable Power Factor	0.8 LG ... 0.8 LD	0.8 LG ... 0.8 LD
Max. Total Harmonic Distortion	< 3%	< 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 Detection	Yes	
Residual Current Detection	Yes	
	Communication	
Display	LED Indicators	
USB / Bluetooth + APP	Yes	
RS485	Yes	
Power Line Communication (PLC)	Yes	
	General	
Dimensions (W×H×D, With Mounting Plate)	21.7 inch × 30.3 inch × 11.1 inch (550 mm × 770 mm × 283 mm)	
Weight (With Mounting Plate)	126 lb. (57 kg)	
Operation Temperature Range	-13°F ~ 140°F (-25°C ~ 60°C)	
Cooling	Natural Convection	
Max. Operating Altitude	13,123 ft. (4,000 m)	
Relative Humidity	0 ~ 100%	
DC Connector	Amphenol Helios H4	
AC Connector	Waterproof PG Terminal + OT Connector	
Protection Rating	NEMA Type 4X	
Topology	Transformerless	
	Standards Compliance	
Safety / EMC	UL 1741, UL 1699B, CSA C22.2 #107.1-01, FCC Part 15	
Grid Code	IEEE 1547, IEEE 1547a	

