

String Inverter (SUN2000-43KTL-IN-C1)



Smart

- 4 MPPTs for versatile adaptations to different layouts
- 8 strings intelligent monitoring and fast trouble-shooting
- Power Line Communication (PLC) supported
- Smart String I-V Diagnosis supported

Safe

- DC disconnect integrated, safe and convenient for maintenance
- Type II surge arresters for both DC and AC
- Ground fault protection
- Residual Current Detection (RCD) protection

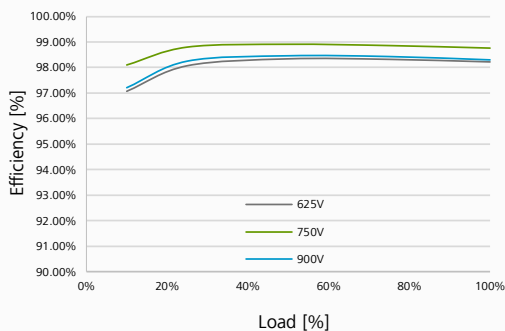
Efficient

- Max. efficiency 98.9%, European efficiency 98.6%

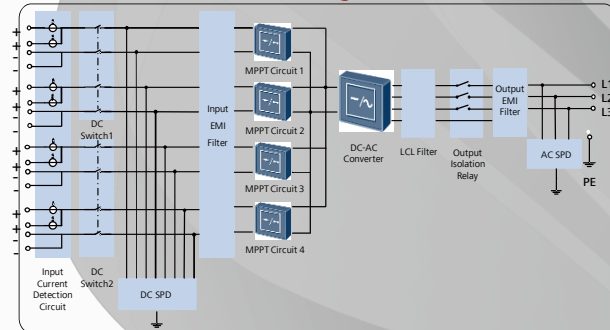
Reliable

- No need for external fans with natural cooling technology
- Protection rating of IP65

Efficiency Curve



Circuit Diagram



SUN2000-43KTL-IN-C1

Always Available for Highest Yields



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Technical Specifications	SUN2000-43KTL-IN-C1	
	Efficiency	
Max. Efficiency	98.9%	
European Efficiency	98.6%	
	Input	
Max. DC Usable Power	53,500 W	
Max. Input Voltage	1,100 V	
Max. Current per MPPT	22 A	
Max. Short Circuit Current per MPPT	30 A	
Min. Start Input Voltage	250 V	
Full Power MPPT Voltage Range	625 V ~ 850 V	
MPPT Operating Voltage Range	200 V ~ 1000 V	
Rated Input Voltage	750 V	
Max. Number of Inputs	8	
Number of MPP Trackers	4	
	Output	
Rated AC Active Power	43,000 W	
Max. AC Apparent Power	52,500 VA	
Max. AC Active Power (cosφ=1)	Default 52,500 W; 43,000W optional in settings; 0 ~ 52,500 W controllable by Scada	
Rated Output Voltage	288V / 500V, 3W+PE	
Rated Output Current	49.7 A	
Rated AC Grid Frequency	50 Hz / 60 Hz	
Max. Output Current	60.7 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	
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 Detection	Yes	
	Communication	
Display	LED Indicators	
USB / Bluetooth +APP	Yes	
RS485	Yes	
PLC	Yes	
	General	
Dimensions (W×H×D)	930 × 550 × 260 mm (36.6 × 21.7 × 10.2 inches)	
Weight	55 kg (121 lb.)	
Operation Temperature Range	-25 °C ~ 60 °C (-13°F ~ 140°F)	
Cooling	Natural Convection	
Operating Altitude	0 ~ 5,000 m (16,404 ft.)	
Relative Humidity	0 ~ 100%	
DC Connector	Amphenol Helios H4	
AC Connector	Waterproof PG Terminal + OT Connector	
Protection Rating	IP65	
Internal Consumption at Night	< 1 W	
Topology	Transformerless	
	Standards Compliance	
Safety /EMC	EN/IEC 61000-6-1, EN 61000-6-2, EN/IEC 61000-6-3, EN/IEC 61000-6-4, EN/IEC 62109-1, EN/IEC 62109-2	
Grid Code	IEC 61727, IEC 62116	

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