

SUN2000-250KTL-H1

Smart String Inverter



Max. Efficiency
≥99.0%



Smart Self Clean Fan



Smart DC Connector
Temperature Detect



Smart String Level
Disconnection



28 High Accuracy String
Current Detect



Support IV diagnosis

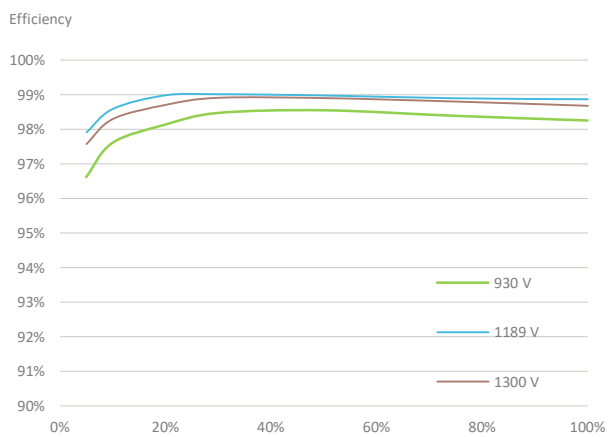


IP 66 protection

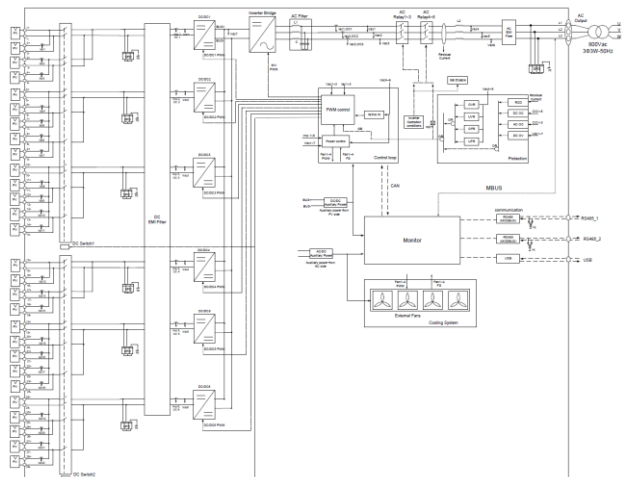


Surge Arresters for
DC & AC

Efficiency Curve



Circuit Diagram



Technical Specifications

Efficiency		
Max. Efficiency		≥99.0%
European Efficiency		≥98.8%
Input		
Max. Input Voltage		1,500 V
Number of MPP Trackers		6
Max. Current per MPPT		65 A
Max. Short Circuit Current per MPPT		115 A
Max. PV Inputs per MPPT		4/5/5/4/5/5
Start Voltage		550 V
MPPT Operating Voltage Range		500 V ~ 1,500 V
Nominal Input Voltage		1,080 V
Output		
Nominal AC Active Power		250,000 W
Max. AC Apparent Power		275,000 VA
Max. AC Active Power (cosφ=1)		275,000 W
Nominal Output Voltage		800 V, 3W + PE
Rated AC Grid Frequency		50 Hz / 60 Hz
Nominal Output Current		180.5 A
Max. Output Current		198.5 A
Adjustable Power Factor Range		0.8 LG ... 0.8 LD
Total Harmonic Distortion		< 1%
Protection		
Smart String-Level Disconnect(SSLD)		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
AC Grounding Fault Protection		Yes
Residual Current Monitoring Unit		Yes
Communication		
Display		LED Indicators, WLAN + APP
USB		Yes
MBUS		Yes
RS485		Yes
General		
Dimensions (W x H x D)		1,048 x 732 x 395 mm
Weight (with mounting plate)		≤112 kg
Operating Temperature Range		-30 °C ~ 60 °C
Cooling Method		Smart Air Cooling
Max. Operating Altitude without Derating		4,000 m (13,123 ft.)
Relative Humidity		0 ~ 100%
AC Connector		Waterproof Connector + OT/DT Terminal
Protection Degree		IP 66
Topology		Transformerless