

Smart String Inverter

SUN2000-60KTL-M0



Smart

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

Efficient

- Max. efficiency 98.9%, European efficiency 98.7%
- 6 MPPTs for versatile adaptations to different layouts

Safe

- DC disconnect integrated, safe and convenient for maintenance
- Residual Current Monitoring Unit (RCMU) integrated inside
- Fuse free design

Reliable

- Natural cooling technology
- Protection rating of IP65
- Type II surge arresters for both DC and AC

Smart String Inverter (SUN2000-60KTL-M0)



Technical Specifications	SUN2000-60KTL-M0
	Efficiency
Max. Efficiency	98.9%@480 V, 98.6%@400 V
European Efficiency	98.7% @480 V, 98.5%@400 V
	Input
Max. Input Voltage	1,100 V
Max. Current per MPPT	22 A
Max. Short Circuit Current per MPPT	30 A
Start Voltage	200 V
MPPT Operating Voltage Range	200 V~1,000 V
Rated Input Voltage	720 V / 480 V, 600 V / 400 V
Max. Number of Inputs	12
Number of MPP Trackers	6
	Output
Rated AC Active Power	60,000 W
Max. AC Apparent Power	66,000 VA
Max. AC Active Power (cosφ=1)	66,000 W
Rated Output Voltage	480 V, 3W+PE; 220 V / 380 V, 230 V / 400 V, default 3W+N+PE, 3W+PE optional in settings
Rated Output Current	72.2 A @ 480 Vac, 86.7 A @ 400 Vac
Rated AC Grid Frequency	50 Hz / 60 Hz
Max. Output Current	79.4 A @ 480 Vac, 95.3A @ 400 Vac
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 Detection	Yes
Residual Current Monitoring Unit	Yes
	Communication
Display	LED Indicators, Bluetooth + APP
RS485	Yes
USB	Yes
PLC	Yes
	General
Dimensions (W x H x D)	1075 x 555 x 300 mm (42.3 x 21.9 x 11.8 inch)
Weight (with mounting plate)	73 kg (161 lb.)
Operation Temperature Range	-25°C ~ 60°C (-13°F ~ 140°F)
Cooling	Natural Convention
Max. Operating Altitude	4,000 m (13,123 ft.)
Relative Humidity	0~100%
DC Connector	Amphenol Helios H4
AC Connector	Waterproof PG Terminal + OT Connector/Clamp
Protection Rating	IP65
Topology	Transformerless

