SUN2000-50KTL-M3

Smart PV Controller







Higher Yields

Up to 30% More Energy with Optimizer



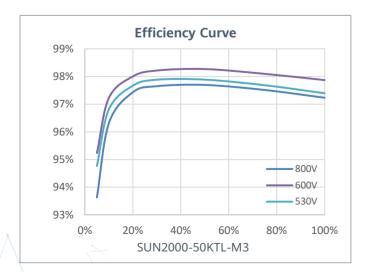
Active Safety

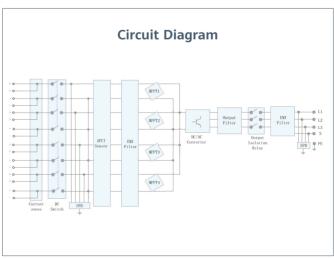
Al Powered Active Arcing Protection



Flexible Communication

WLAN, Fast Ethernet, 4G Communication Supported





Technical Specification

echnical Specification	SUN2000-50KTL-M3
	Efficiency
Max. Efficiency	98.5%
European Efficiency	98.0%
anopeun Emelency	30.070
	Input
Max. Input Voltage ¹	1,100 V
Max. Current per MPPT	30 A (per MPPT) / 20 A (per Input)
Max. Short Circuit Current per MPPT	40 A
Start Voltage	200 V
MPPT Operating Voltage Range ²	200 V ~ 1,000 V
Rated Input Voltage Number of Inputs	600 V 8
Number of Inputs Number of MPP Trackers	4
Number of MPP Trackers	4
	Output
Rated AC Active Power	50,000 W
Max. AC Apparent Power	55,000 VA
Лах. AC Active Power (cosф=1)	55,000 W
Rated Output Voltage	400 Vac / 480 Vac, 3W+(N) + PE
Rated AC Grid Frequency	50 Hz / 60 Hz
Rated Output Current	72.2 A @ 400Vac, 60.1 A @ 480Vac
Max. Output Current	79.8 A @ 400Vac, 66.5 A @ 480Vac
Adjustable Power Factor Range	0.8 LG 0.8 LD
Max. Total Harmonic Distortion	<3%
	Protection
nput-side Disconnection Device	Yes
Anti-islanding Protection	Yes
AC Overcurrent Protection	Yes
OC Reverse-polarity Protection	Yes
PV-array String Fault Monitoring	Yes
OC Surge Arrester	Type II
AC Surge Arrester OC Insulation Resistance Detection	Type II Yes
Residual Current Monitoring Unit	Yes
Arc Fault Protection	Yes
Ripple Receiver Control	Yes
ntegrated PID Recovery ³	Yes
× 1	Communication
Display	LED Indicators, Bluetooth + APP
mart Dongle	Yes WLAN/Ethernet via Smart Dongle-WLAN-FE (Optional)
Monitoring BUS (MBUS)	4G / 3G / 2G via Smart Dongle-4G (Optional) Yes (Isolation Transformer required)
'	
	General Data
Dimensions (W x H x D)	640 x 530 x 270 mm (25.2 x 20.9 x 10.6 inch)
Veight (with mounting plate)	49 kg (108.1 lb)
Operating Temperature Range	-25°C ~ 60°C (-13°F ~ 140°F)
Cooling Method Max. Operating Altitude	Smart Air Cooling 4,000 m (13,123 ft.)
Relative Humidity	0% RH ~ 100% RH
OC Connector	Amphenol Helios H4
AC Connector	Waterproof Connector + OT/DT Terminal
Protection Degree	IP 66
opology	Transformerless
lighttime Power Consumption	≤ 5.5W
	Standard Commission (management)
afety	Standard Compliance (more available upon request) EN 62109-1/-2, IEC 62109-1/-2, EN 50530, IEC 62116, IEC 60068, IEC 61683
Safety	EN 02109-1/-2, IEC 02109-1/-2, EN 50530, IEC 02110, IEC 00008, IEC 01083

Grid Connection Standards

IEC 61727, VDE-AR-N4105, VDE 4110, VDE 0126-1-1, BDEW, G59/3, UTE C 15-712-1, CEI 0-16, CEI 0-21, RD 661,

RD 1699, P.O. 12.3, RD 413, EN-50438-Turkey, EN-50438-Ireland, C10/11, MEA, Resolution No.7, NRS 097-2-1, DEWA

The maximum input voltage is the upper limit of the DC voltage. Any higher input DC voltage would probably damage inverter.
 Any DC input voltage beyond the operating voltage range may result in inverter improper operating.
 SUN2000-30-50KTL-M3 raises potential between PV- and ground to above zero through integrated PID recovery function to recover module degradation from PID. Supported module types include: P-type (mono, poly), N-type (nPERT, HIT)