## SUN2000-50KTL-M3

## **Smart PV Controller**







**Higher Yields** 



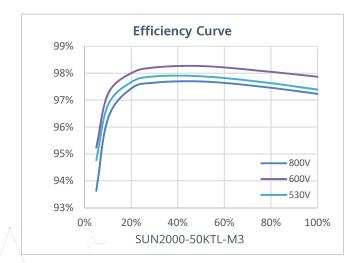
**Active Safety** 

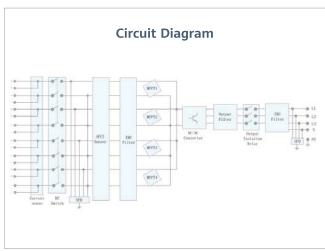
Al Powered Active Arcing Protection



## **Flexible Communication**

WLAN, Fast Ethernet, 4G Communication Supported





## **Technical Specification**

echnical Specification	SUN2000-50KTL-M3
	Efficiency
Max. Efficiency	98.5%
European Efficiency	98.0%
	Input
Max. Input Voltage <sup>1</sup>	1,100 V
Max. Current per MPPT	30 A
Max. Current per Input	20 A
Max. Short Circuit Current per MPPT	40 A
tart Voltage	200 V
MPPT Operating Voltage Range <sup>2</sup>	200 V ~ 1,000 V
ated Input Voltage	600 V
lumber of Inputs	8
lumber of MPP Trackers	4
	Outhout
L. LACA II. B	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
Лах. 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
V-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
	Yes
Ripple Receiver Control Integrated PID Recovery 3	Yes
	Communication
Display	LED Indicators, Bluetooth + APP
S485	Yes  WI AN/Ethornat via Smart Dangle WI AN EE (Optional)
mart Dongle	WLAN/Ethernet via Smart Dongle-WLAN-FE (Optional) 4G / 3G / 2G via Smart Dongle-4G (Optional)
Monitoring BUS (MBUS)	Yes (Isolation Transformer required)
	General Data
Dimonsions (W v H v D)	640 x 530 x 270 mm (25.2 x 20.9 x 10.6 inch)
Dimensions (W x H x D)	49 kg (108.1 lb)
Veight (with mounting plate)	3 , , ,
Operating Temperature Range	-25eC ~ 60eC (-13eF ~ 140eF)
Cooling Method	Smart Air Cooling
Max. Operating Altitude	4,000 m (13,123 ft.)
Relative Humidity	0% RH ~ 100% RH
OC Connector	Amphenol H4
AC Connector	Waterproof Connector + OT/DT Terminal
rotection Degree	IP 66
opology	Transformerless
lighttime Power Consumption	≤ 5.5W
	Standard Compliance (more available upon request)
afety	EN 62109-1/-2, IEC 62109-1/-2, EN 50530, IEC 62116, IEC 60068, IEC 61683
aree,	LIN 02103-17-2, IEC 02103-17-2, EN 30330, IEC 02110, IEC 00000, IEC 01003

Grid Connection Standards

IEC 61727, VDE-AR-N4105, 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)