SUN2000-30/36/40KTL-M3

Smart String Inverter







Smart

8 strings intelligent monitoring

Efficient

Max. efficiency 98.7%



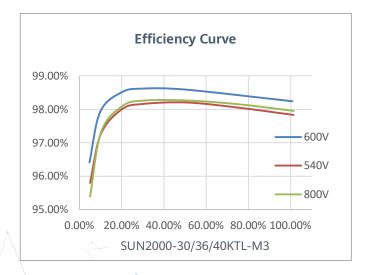
Safe

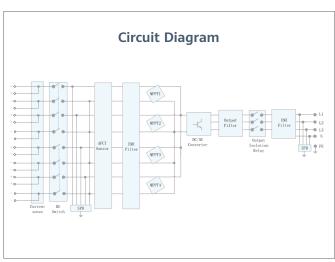
Fuse free design



Reliable

Type II surge arresters for DC & AC





echnical Specification	SUN2000-30KTL-M3	SUN2000-36KTL-M3	SUN2000-40KTL-M3	
		Efficiency		
Max. Efficiency	98.7%			
European Efficiency		98.4%		
		Innut		
Max. Input Voltage ¹		Input (1,100 V		
Max. Current per MPPT	26 A			
Max. Short Circuit Current per MPPT	40 A			
Start Voltage		200 V		
MPPT Operating Voltage Range ²	200 V ~ 1000 V			
Rated Input Voltage	600 V			
Number of Inputs	8			
Number of MPP Trackers		4		
		Output		
Rated AC Active Power	30,000 W	36,000 W	40,000 W	
Max. AC Active Power Max. AC Apparent Power	33,000 W 33,000 VA	40.000 VA	40,000 VV 44,000 VA	
Rated Output Voltage	33,000 VA	230 Vac / 400 Vac, 3W/N+PE	44,000 VA	
Rated Output Voltage Rated AC Grid Frequency		50 Hz / 60 Hz		
Rated AC Grid Frequency Rated Output Current	42.2 V	50 HZ / 60 HZ 52.0 A	E7 0 A	
Max. Output Current	43.3 A	52.0 A 58.0 A	57.8 A	
Max. Output Current Adjustable Power Factor Range	47.9 A		63.8 A	
Max. Total Harmonic Distortion		0.8 LG 0.8 LD < 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			
DC Surge Arrester	Yes			
AC Surge Arrester	Yes			
OC Insulation Resistance Detection	Yes			
Residual Current Monitoring Unit	Yes			
Arc Fault Protection	Yes			
Ripple Receiver Control	Yes			
ntegrated PID Recovery ³		Yes		
		Communication		
Display	LED Indicators, Integrated WLAN + FusionSolar APP			
RS485	Yes WI AN/Ethornet via Smart Denale WI AN EE (Ontional)			
Smart Dongle	WLAN/Ethernet via Smart Dongle-WLAN-FE (Optional) 4G / 3G / 2G via Smart Dongle-4G (Optional)			
Monitoring BUS (MBUS)	4G / 3G / 2G via Smart Dongle-4G (Optional) Yes (Isolation Transformer required)			
3 (,				
		General Data		
Dimensions (W x H x D)	640 x 530 x 270 mm (25.2 x 20.9 x 10.6 inch)			
Weight (with mounting plate)	43 kg (94.8 lb)			
Nosie Level	< 46 dB			
Operating Temperature Range	-25 ~ + 60 °C (-13 °F ~ 140 °F)			
Cooling Method	Natural Convection			
Max. Operating Altitude	0 - 4,000 m (13,123 ft.)			
Relative Humidity	0% RH ~ 100% RH			
OC Connector		Staubli MC4		
AC Connector	Waterproof Connector + OT/DT Terminal			
Protection Degree		IP 66		
Topology	Transformerless			
Nightime Power Consumption		≤ 5.5W		
		Optimizer Compatibility	V	
DC MBUS Compatible Optimizer		SUN2000-450W-P	у	
			_	
Cafata		pliance (more available		
Safety		62109-1/-2, EN 50530, IEC 62116, IE		
Grid Connection Standards	IEC 61727, VDE-AR-N4105, VDE 0126	5-1-1, BDEW, G59/3, UTE C 15-712-1, 138-Turkey, EN-50438-Ireland, C10/1		

^{1.} The maximum input voltage is the upper limit of the DC voltage. Any higher input DC voltage would probably damage inverter.

2. Ary DC input voltage beyond the operating voltage range may result in inverter improper operating.

3. SUN2000-30-40KTL-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) SOLAR.HUAWEI.COM