SUN2000-30/36/40KTL-M3

Smart String Inverter







Smart

8 strings intelligent monitoring

Efficient

Max. efficiency 98.7%



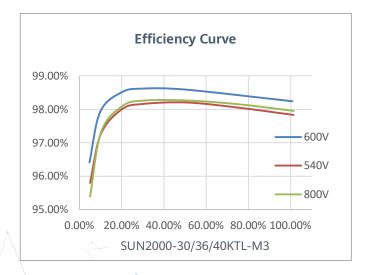
Safe

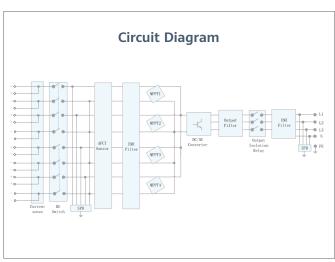
Fuse free design



Reliable

Type II surge arresters for DC & AC





echnical Specification	SUN2000-30KTL-M3	SUN2000-36KTL-M3	SUN2000-40KTL-M	
		Efficiency		
Max. Efficiency	98.7%			
European Efficiency		98.4%		
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		
		Outmut		
Datad AC Active Dayyer	20 000 W	Output	40 000 W	
Rated AC Active Power Max. AC Apparent Power	30,000 W 33,000 VA	36,000 W 40.000 VA	40,000 W 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 Output Current	43.3 A	52.0 A	57.8 A	
Max. Output Current	47.9 A	58.0 A	63.8 A	
Adjustable Power Factor Range	17.57	0.8 LG 0.8 LD	03.0 A	
Max. Total Harmonic Distortion		< 3%		
		Dunka stiller		
must side Disserve tier D		Protection		
nput-side Disconnection Device Anti-islanding Protection	Yes			
AC Overcurrent Protection	Yes Yes			
DC Reverse-polarity Protection	Yes			
PV-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 W/ AN/Ethornet via Smart Dengle W/ AN/EE (Optional)			
Smart 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			
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 DC Connector	0% RH ~ 100% RH Staubli MC4			
AC Connector	Waterproof Connector + OT/DT Terminal			
Protection Degree	VV	IP 66		
Topology	Transformerless			
Nightime Power Consumption		≤ 5.5W		
DC MPLIS Compatible Outining		Optimizer Compatibility SUN2000-450W-P	y	
DC MBUS Compatible Optimizer		SUN2000-450W-P		
		pliance (more available		
Safety		62109-1/-2, EN 50530, IEC 62116, IE		
	IEC 61727, VDE-AR-N4105, VDE 0126	5-1-1, BDEW, G59/3, UTE C 15-712-1,	CEI 0-16, CEI 0-21, RD 661, RD 1	
Grid Connection Standards		438-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. Any 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)

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