SUN2000-30/36/40KTL-M3

Smart PV Controller







Smart8 strings intelligent monitoring



Efficient

Max. efficiency 98.7%

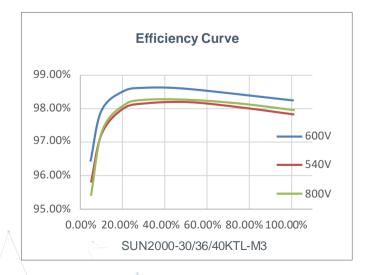


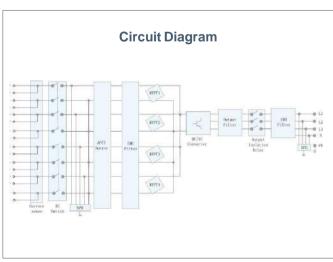
SafeFuse free design



Reliable

Type II surge arresters for DC & AC





Technical Specification

echnical Specification	SUN2000-30KTL-M3	SUN2000-36KTL-M3	SUN2000-40KTL-M3	
		Efficiency		
Max. Efficiency		98.7%		
European Efficiency		98.4%		
<u> сигореан спісієнсу</u>		30.470		
		Input		
Max. Input Voltage 1		1,100 V		
Max. Current per MPPT	27 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 ~ 1000 V			
Rated Input Voltage	600 V			
Number of Inputs	8			
Number of MPP Trackers		4		
		Output		
Dotted AC Active Device	20.000144		40.000344	
Rated AC Active Power	30,000 W	36,000 W	40,000 W	
Max. AC Apparent Power	33,000 VA ³	40,000 VA	44,000 VA	
Rated Output Voltage		230 Vac / 400 Vac / 480 Vac, 3W/N+PE		
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		0.8 LG 0.8 LD		
Max. Total Harmonic Distortion		< 3%		
		Protection		
Input-side Disconnection Device		Yes		
Anti-islanding Protection		Yes		
AC Overcurrent Protection		Yes		
DC Reverse-polarity Protection	Yes			
PV-array String Fault Monitoring		Yes		
DC Surge Arrester				
AC Surge Arrester	Yes Yes			
DC Insulation Resistance Detection	Yes Yes			
Residual Current Monitoring Unit	Yes			
Arc Fault Protection		Yes		
Ripple Receiver Control	Yes			
Integrated PID Recovery 4		Yes		
integrated i ib Necovery				
		Communication	400	
Display	LED Indicators, Integrated WLAN + FusionSolar APP			
RS485	Yes			
Smart Dongle		thernet via Smart Dongle-WLAN-FE (Op / 3G / 2G via Smart Dongle-4G (Option		
		OsmanilDida		
	General Data Control of the Control			
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)		
Operating Temperature Range		-25 ~ + 60 °C (-13 °F ~ 140 °F)		
Cooling Method		Natural Convection		
9	4,000 m (13,123 ft.) (Derating above 2000 m)			
Max. Operating Altitude	4,0	0% RH ~ 100% RH		
	4,0	, , , , , ,		
Relative Humidity		0% RH ~ 100% RH Amphenol Helios H4		
Relative Humidity DC Connector		0% RH~ 100% RH	le	
Relative Humidity DC Connector AC Connector		0% RH ~ 100% RH Amphenol Helios H4	al	
Relative Humidity DC Connector AC Connector Protection Degree		0% RH ~ 100% RH Amphenol Helios H4 Waterproof Connector + OT/DT Termina	al	
Relative Humidity DC Connector AC Connector Protection Degree Topology		0% RH ~ 100% RH Amphenol Helios H4 Waterproof Connector + OT/DT Termina IP 66	ls	
Relative Humidity DC Connector AC Connector Protection Degree Topology	\	0% RH ~ 100% RH Amphenol Helios H4 Waterproof Connector + OT/DT Termina IP 66 Transformerless ≤ 5.5W	al	
Relative Humidity DC Connector AC Connector Protection Degree Topology Nightime Power Consumption		0% RH ~ 100% RH Amphenol Helios H4 Waterproof Connector + OT/DT Termina IP 66 Transformerless ≤ 5.5W Optimizer Compatibility		
Relative Humidity DC Connector AC Connector Protection Degree Topology Nightime Power Consumption	SUN2000	0% RH ~ 100% RH Amphenol Helios H4 Waterproof Connector + OT/DT Termina IP 66 Transformerless ≤ 5.5W Optimizer Compatibility 0-450W-P, SUN2000-450W-P2, SUN200	0-600W-P	
Max. Operating Altitude Relative Humidity DC Connector AC Connector Protection Degree Topology Nightime Power Consumption DC MBUS Compatible Optimizer	SUN2000 Standard Com	0% RH ~ 100% RH Amphenol Helios H4 Waterproof Connector + OT/DT Termina IP 66 Transformerless ≤ 5.5W Optimizer Compatibility 0-450W-P, SUN2000-450W-P2, SUN2000 opliance (more available up	0-600W-P oon request)	
Relative Humidity DC Connector AC Connector Protection Degree Topology Nightime Power Consumption DC MBUS Compatible Optimizer Safety	SUN2000 Standard Com EN 62109-1/-2, IEC IEC 61727, VDE-AR-N4105, VDE 012	0% RH ~ 100% RH Amphenol Helios H4 Waterproof Connector + OT/DT Termina IP 66 Transformerless ≤ 5.5W Optimizer Compatibility 0-450W-P, SUN2000-450W-P2, SUN200	0-600W-P DON request) 0-60068, IEC 61683	
Relative Humidity DC Connector AC Connector Protection Degree Topology Nightime Power Consumption	SUN2000 Standard Com EN 62109-1/-2, IEC IEC 61727, VDE-AR-N4105, VDE 01:1699,	0% RH ~ 100% RH Amphenol Helios H4 Waterproof Connector + OT/DT Termina IP 66 Transformerless ≤ 5.5W Optimizer Compatibility 0-450W-P, SUN2000-450W-P2, SUN2000 apliance (more available up	0-600W-P DON request) C 60068, IEC 61683 , CEI 0-16, CEI 0-21, RD 661, RD	

The maximum inputvoltage 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.
 For Austria, German & Ukraine the Max. AC Apparent Power will not exceed 30,000 VA (with regard to grid code: VDE-AR-N-4105 & Austria)
 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)