SUN2000-12/15/17/20KTL-M2 (High Current Version)

Smart PV Controller





Al Powered Arcing Protection



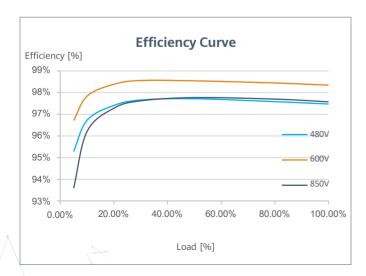
Higher Yields

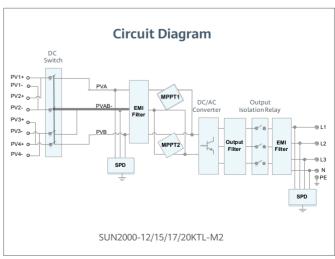
Up to 30% More Energy with Optimizer



Flexible Communication

WLAN, Fast Ethernet, 4G Communication Supported





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Technical Specification

echnical Specification	SUN2000 -12KTL-M2	SUN2000 -15KTL-M2	SUN2000 -17KTL-M2	SUN2000 -20KTL-M2	
		Effici	encv		
Max. efficiency	98.50%	98.65%	98.65%	98.65%	
European weighted efficiency	98.00%	98.30%	98.30%	98.30%	
,	55.0576			36.5676	
	40.000.00	Input			
Recommended max. PV power 1	18,000 Wp	22,500 Wp	25,500 Wp	30,000 Wp	
Max. input voltage ²	1,080 V				
Operating voltage range ³	160 V ~ 950 V				
Start-up voltage	200 V				
Rated input voltage	600 V				
Max. input current per MPPT		27 A (per MPPT) / 18 A (per Input) ⁴ 39 A			
Max. short-circuit current					
Number of MPP trackers		2			
Max. number of inputs		2	1		
		Output			
Grid connection		Three	phase		
Rated output power	12,000 W	15,000 W	17,000 W	20,000 W	
Max. apparent power	13,200 VA	16,500 VA	18,700 VA	22,000 VA	
Rated output voltage		220 Vac / 380 Vac, 230 Va	ac / 400 Vac, 3W + N + PE		
Rated AC grid frequency		50 Hz /			
Max. output current	20 A	25.2 A	28.5 A	33.5 A	
Adjustable power factor		0.8 leading	. 0.8 lagging		
Max. total harmonic distortion		-	3 %		
		Features &	Protections		
Input-side disconnection device	Yes				
Anti-islanding protection	Yes				
AC over-current protection	Yes				
AC short-circuit protection	Yes				
AC over-voltage protection	Yes				
DC reverse-polarity protection	Yes				
DC surge protection	TYPE II				
AC surge protection					
Residual current monitoring unit	Yes, compatible with TYPE II protection class according to EN/IEC 61643-11 Yes				
Arc fault protection	Yes				
Ripple receiver control					
Integrated PID recovery 5	Yes Yes				
micgrated FID recovery					
	General Data				
Operation temperature range	-25 ~ +60 °C (-13 °F ~ 140 °F)				
Relative humidity	0 % RH ~ 100% RH				
Max. operating altitude	0 ~ 4,000 m (13,123 ft.) (Derating above 2000 m)				
Cooling	Natural Convection				
Display	LED Indicators; Integrated WLAN + FusionSolar App				
Communication	RS485; WLAN/Ethernet via Smart Dongle-WLAN-FE (Optional) 4G / 3G / 2G via Smart Dongle-4G (Optional)				
Weight (with mounting plate)	25 kg				
Dimensions (W x H x D)	<u> </u>				
(incl. mounting plate)	525 x 470 x 262 mm (20.7 x 18.5 x 10.3 inch)				
Degree of protection	IP65				
Nighttime Power Consumption		< 5.5	2M e		
		Optimizer Co	ompatibility		
DC MBUS compatible optimizer		SUN2000-450W-P, SUN2000-450W-P2, SUN2000-600W-P			
	C+ J	ard Camplianas (ro publichle unan us su	iost)	
	Standard Compliance (more available upon request)				
Safoty	EN/IEC 62109-1, EN/IEC 62109-2 G98, G99, EN 50549, CEI 0-21, CEI 0-16, VDE-AR-N-4105, VDE-AR-N-4110, AS 4777.2, C10/11, ABNT,				
Safety	COS COO EN EDEAD			72 C10/11 ADNIT	

^{*1} Inverter max input PV power is 40,000 Wp when long strings are designed and fully connected with SUN2000-450W-P power optimizers.

*2 The maximum input voltage is the upper limit of the DC voltage. Any higher input DC voltage would probably damage inverter.

*3 Any DC input voltage beyond the operating voltage range may result in inverter improper operating.

*4 The MPPT voltage of each PV string must exceed the lower limit of Full Power MPPT Voltage Range. (Full Power MPPT Voltage Range: 12KTL@360~850V, 15KTL@380~850V, 17KTL@400~850V, 20KTl@450~850V)

*5 SUN2000-12~20KTL-M2 raises potential between PV- and ground to above zero through integrated PID recovery function for recover module degradation from PID. Supported module types include: P-type (mono, poly)

*6.

*7. Smart IV Curve Diagnosis feature will be made available in a future firmware upgrade, which expected available 2021 Q4