Smart PV Controller







*1 Only applicable to SUN2000-12/15/17/20KTL-M2 inverter.

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SUN2000-12/15/17/20KTL-M2 Technical Specification

echnical Specification	-12KTL-M2	-15KTL-M2	-17KTL-M2	SUN2000 -20KTL-M2
		Effici	iency	
Nax. efficiency	98.50%	98.65%	98.65%	98.65%
uropean weighted efficiency	98.00%	98.30%	98.30%	98.30%
	500070			5010070
ecommended max. PV power ¹	18,000 Wp	22,500 Wp	25,500 Wp	30,000 Wp
Aax. input voltage ²	1,080 V			
Operating voltage range ³	160 V ~ 950 V			
tart-up voltage	200 V			
Rated input voltage	600 V			
lax. input current per MPPT	22 A			
lax. short-circuit current	30 A			
lumber of MPP trackers	2			
lax. input number per MPP tracker		2	2	
		Out	put	
Grid connection	Three phase			
Rated output power	12,000 W	15,000 W	17,000 W	20,000 W
Aax. apparent power	13,200 VA	16,500 VA	18,700 VA	22,000 VA
ated output voltage		220 Vac / 380 Vac, 230 Va	ac / 400 Vac, 3W + N + PE	
ated AC grid frequency			/ 60 Hz	
/lax. output current	20 A	25.2 A	28.5 A	33.5 A
djustable power factor		0.8 leading	0.8 lagging	
Iax. total harmonic distortion		≤ (3 %	
		Features &	Protections	
nput-side disconnection device	Yes			
nti-islanding protection		Ye	es	
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	Yes, compatible with TYPE II protection class according to EN/IEC 61643-11			
Residual current monitoring unit	Yes			
Arc fault protection	Yes			
Ripple receiver control	Yes			
ntegrated PID recovery ⁴		Ye	es	
		Genera		
Operation temperature range	-25 ~ +60 °C (-13 °F ~ 140 °F)			
Relative humidity	0 % RH ~ 100% RH			
Max. operating altitude	4,000 m (13,123 ft.) (Derating above 2000 m)			
Cooling	Natural Convection LED Indicators; Integrated WLAN + FusionSolar App			
Display	RS485; WLAN/Ethernet via Smart Dongle-WLAN-FE (Optional)			
Communication	ľ		: Dongle-4G (Optional))
Weight (with mounting plate)		25	5 . 1 .	
Dimensions (W x H x D)			5	
(incl. mounting plate)		525 x 470 x 262 mm (2	20.7 x 18.5 x 10.3 inch)	
Degree of protection	IP65			
Nighttime Power Consumption	< 5.5 W ⁵			
		Optimizer C	ompatibility	
DC MBUS compatible optimizer)-450W-P	
	Stan	dard Compliance (mo	re available upon requ	uest)
Safety	EN/IEC 62109-1, EN/IEC 62109-2			
Grid connection standards			I-4105, VDE-AR-N-4110, AS 47 , TOR D4, IEC61727, IEC62116,	