Smart PV Controller







Al Powered Arcing Protection



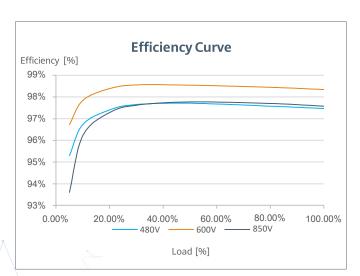
Higher Yields

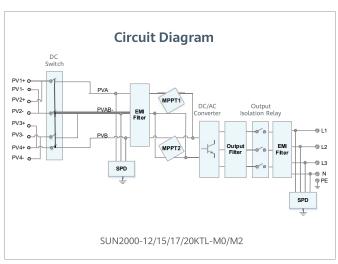
Up to 30% More Energy with Optimizer ¹



Flexible Communication

WLAN, Fast Ethernet, 4G Communication Supported





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

Technical Specification

echnical Specification	-12KTL-M2	-15KTL-M2	-17KTL-M2	-20KTL-M2	
		⊏ff: -	ionay		
Max. efficiency	00 500/		iency	00.050/	
3	98.50%	98.65%	98.65%	98.65%	
uropean weighted efficiency	98.00%	98.30%	98.30%	98.30%	
			put		
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 Max. input current per MPPT	600 V 22 A				
Max. short-circuit current	30 A				
Number of MPP trackers	2				
Max. input number per MPP tracker			2		
		Out	tnut		
Grid connection	Output 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	
ated output voltage		220 Vac / 380 Vac, 230 V	ac / 400 Vac, 3W + N + PE		
lated AC grid frequency		50 Hz	/ 60 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		
nput-side disconnection device	Yes				
Inti-islanding protection		Yes			
C over-current protection	Yes				
C short-circuit protection	Yes				
C over-voltage protection	Yes				
OC reverse-polarity protection	Yes				
OC surge protection	TYPE II Yes, compatible with TYPE II protection class according to EN/IEC 61643-11				
esidual current monitoring unit	Yes				
arc fault protection	Yes				
ipple receiver control	Yes				
ntegrated PID recovery ⁴	Yes				
		Gener	al Data		
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				
isplay	LED Indicators; Integrated WLAN + FusionSolar App RS485; WLAN/Ethernet via Smart Dongle-WLAN-FE (Optional)				
Communication	ı	,	art Dongle-WLAN-FE (Optional t Dongle-4G (Optional))	
Veight (with mounting plate)		25	i kg		
Dimensions (W x H x D)	525 x 470 x 262 mm (20.7 x 18.5 x 10.3 inch)				
(incl. mounting plate)					
Degree of protection Nighttime Power Consumption	IP65 < 5.5 W ⁵				
vigiteime rower consumption					
			Compatibility		
OC MBUS compatible optimizer		SUN2000-450W-P, SUN2000)-450W-P 2, SUN2000-600W-P		
	Stan	dard Compliance (mo	re available upon req	uest)	
Safety		•	, EN/IEC 62109-2	,	
Grid connection standards		G98, G99, EN 50549, CEI 0-21, CEI 0-16, VDE-AR-N-4105, VDE-AR-N-4110, AS 4777.2, C10/11, ABNT, VFR 2019, RD 1699, RD 661, PO 12.3, TOR D4, IEC61727, IEC62116, DEWA			
	VFR 2	עז, ארו ואס עא, ארט שא, ארוע א, איז א א א איז א איז א איז איז א	, TOK D4, IEC61/2/, IEC62116, l	DEWA	