

Technical Specification	SUN2000 -3KTL-M1	SUN2000 -4KTL-M1	SUN2000 -5KTL-M1	SUN2000 -6KTL-M1	SUN2000 -8KTL-M1	SUN2000 -10KTL-M1
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Efficiency

Max. efficiency	98.2%	98.3%	98.4%	98.6%	98.6%	98.6%
European weighted efficiency	96.7%	97.1%	97.5%	97.7%	98.0%	98.1%

Input

Recommended max. PV power ¹	6,150 Wp	8,200 Wp	10,250 Wp	12,300 Wp	14,880 Wp	14,880 Wp
Max. input voltage				1,100 V		
Operating voltage range				140 V ~ 980 V		
Start-up voltage				200 V		
Full power MPPT voltage range	140 V ~ 850 V	190 V ~ 850 V	240 V ~ 850 V	285 V ~ 850 V	380 V ~ 850 V	470 V ~ 850 V
Rated input voltage				600 V		
Max. input current per MPPT				11 A		
Max. short-circuit current				15 A		
Number of MPP trackers				2		
Max. number of inputs				2		

Output

	Three-phase					
Grid connection						
Rated output power	3,000 W	4,000 W	5,000 W	6,000 W	8,000 W	10,000 W
Max. apparent power	3,300 VA	4,400 VA	5,500 VA	6,600 VA	8,800 VA	11,000 VA ²
Rated output voltage			220 Vac / 380 Vac, 230 Vac / 400 Vac, 3W / N+PE			
Rated AC grid frequency			50 Hz / 60 Hz			
Max. output current	5.1 A	6.8 A	8.5 A	10.1 A	13.5 A	16.9 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
DC reverse polarity protection	Yes
Insulation monitoring	Yes
DC lightning protection	Yes
AC lightning protection	Yes
Residual current monitoring	Yes
AC overcurrent protection	Yes
AC short-circuit protection	Yes
AC overvoltage protection	Yes
Arc fault protection	Yes
Ripple receiver control	Yes
Integrated PID recovery	Yes ³

General Data

Operating temperature range	-25 ~ + 60 °C (-13 °F ~ 140 °F) (Derating above 45 °C @ Rated output power)
Relative operating humidity	0 %RH ~ 100 %RH
Operating altitude	0 - 4,000 m (13,123 ft.) (Derating above 3000 m)
Cooling	Natural convection
Display	LED Indicators; Integrated WLAN + FusionSolar App
Communication	RS485; WLAN via Smart Dongle-WLAN; 4G / 3G / 2G via Smart Dongle-4G
Weight (incl. mounting bracket)	17 kg (37.5 lb)
Dimension (incl. mounting bracket)	525 x 470 x 166 mm (20.7 x 18.5 x 6.5 inch)
Degree of protection	IP65

Optimizer Compatibility

DC MBUS compatible optimizer	SUN2000-375W-P2
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Battery Compatibility

Battery Interface	Integrated ⁴
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Standard Compliance (more available upon request)

Certificate	EN/IEC 62109-1, EN/IEC 62109-2, IEC 62116
Grid connection standards	G98, G99, EN 50438, CEI 0-21, VDE-AR-N-4105, VDE-AR-N-4110, AS 4777, C10/11, ABNT, UTE C15-712, RD 1699, TOR D4, NRS 097-2-1, IEC61727, IEC62116, DEWA 2.0

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