

SUN2000-15/17/20/25KTL-ZHM5

Smart String Inverter



Active Safety

AI Powered Arcing Protection



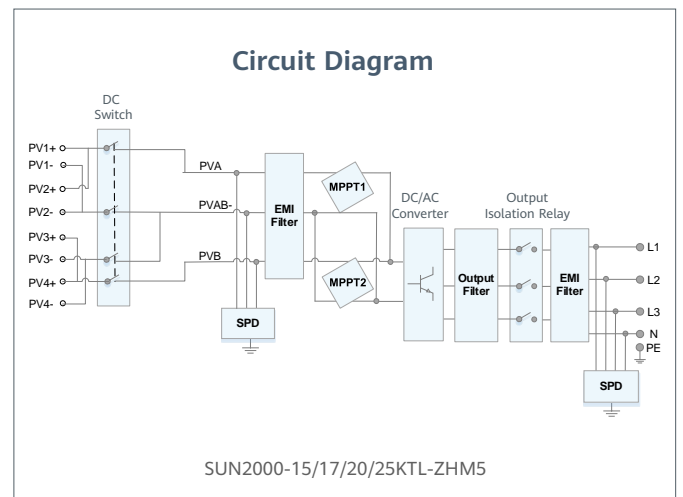
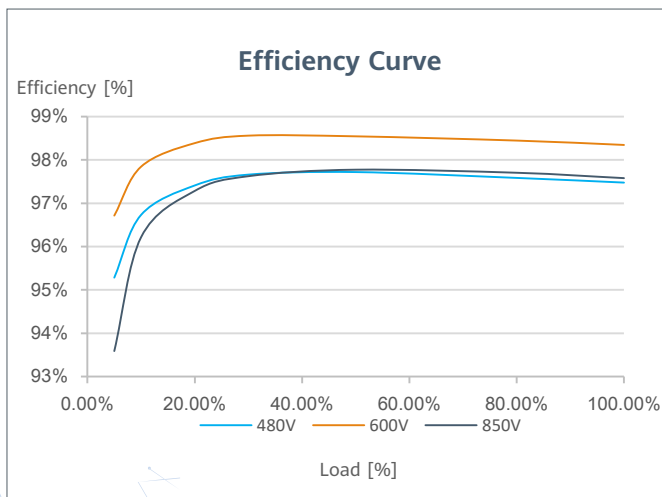
Higher Yields

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.

SUN2000-15/17/20/25KTL-ZHM5 Technical Specification

Technical Specification	SUN2000 -15KTL-ZHM5	SUN2000 -17KTL-ZHM5	SUN2000 -20KTL-ZHM5	SUN2000 -25KTL-ZHM5
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Efficiency

Max. efficiency	98.50%	98.50%	98.50%	98.50%
European weighted efficiency	97.40%	97.50%	97.60%	98.00%

Input

Recommended max. PV power ¹	22,500 Wp	25,500 Wp	30,000 Wp	37,500 Wp
Max. input voltage ²	1,100 V			
Operating voltage range ³	200 V ~ 1000 V			
Start-up voltage	200 V			
Rated input voltage	600 V			
Max. input current per MPPT	22 A /30A			
Max. short-circuit current	40 A			
Number of MPP trackers	2			
Max. number of inputs	4			

Output

Grid connection	Three phase			
Rated output power	15,000 W	17,000 W	20,000 W	25,000 W
Max. apparent power	16,500 VA	18,700 VA	22,000 VA	27,500 VA
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	25.2A/380Vac 23.9A/400Vac	28.6A/380Vac 27.1A/400Vac	33.6A/380Vac 31.9A/400Vac	42.0A/380Vac 39.9A/400Vac
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	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
Integrated PID recovery ⁴	Yes

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)	21 kg
Dimensions (W x H x D) (incl. mounting plate)	546 x 460 x 228 mm
Degree of protection	IP66

Optimizer Compatibility

DC MBUS compatible optimizer	SUN2000-450W-P
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Standard Compliance (more available upon request)

Safety	EN/IEC 62109-1, 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

^{*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} SUN2000-12~20KTL-M2 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)