

Smart PV Controller



Active Safety

AI Powered Arcing Protection



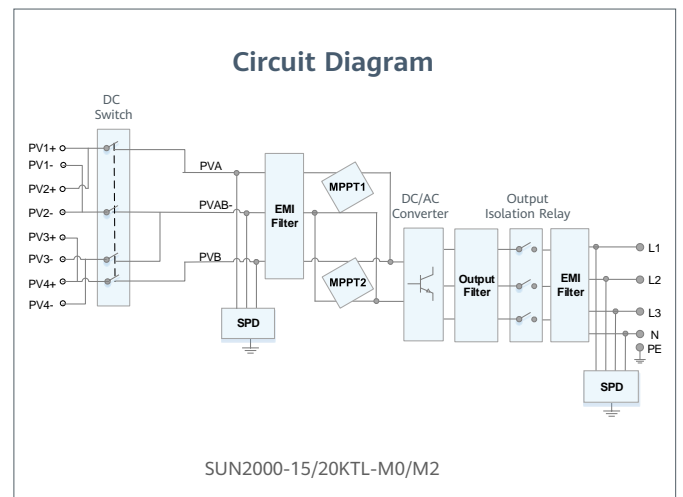
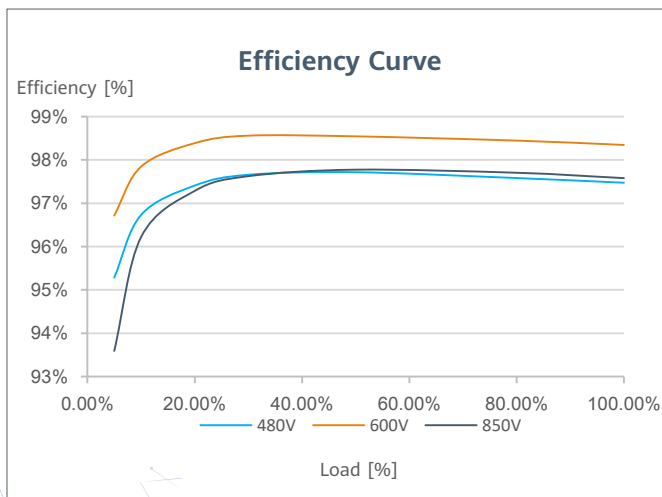
Higher Yields

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.

SUN2000-15/20KTL-M0 Technical Specification

Technical Specification	SUN2000-15KTL-M0	SUN2000-20KTL-M0
Efficiency		
Max. efficiency	98.65%	98.65%
European weighted efficiency	98.30%	98.30%
Input		
Recommended max. PV power	29,760 Wp	29,760 Wp
Max. input voltage ¹	1,080 V	
Operating voltage range ²	160 V ~ 950 V	
Start voltage	200 V	
Rated input voltage	600 V	
Max. input current per MPPT	22 A	
Max. short-circuit current	30 A	
Number of MPP trackers	2	
Max. number of inputs	4	
Output		
Grid connection	Three phase	
Rated output power	15,000 W	20,000 W
Max. apparent power	16,500 VA	22,000 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	25.2 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	Yes	
AC surge protection ³	Yes	
Residual current monitoring unit	Yes	
Arc fault protection	Yes	
Ripple receiver control	Yes	
General Data		
Operation temperature range	-25 ~ + 60 °C (-13 °F ~ 140 °F) (Derating above 45 °C @ Rated output power)	
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	
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) (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 W	
Standard Compliance (more available upon request)		
Safety	EN/IEC 62109-1, EN/IEC 62109-2	
Grid connection standards	G98, G99, EN 50438, CEI 0-21, CEI 0-16, VDE-AR-N-4105, VDE-AR-N-4110, AS 4777, C10/11, ABNT, UTE C15-712, RD 1699, RD 661, PO 12.3, TOR D4, NRS 097-2-1, IEC61727, IEC62116, DEWA 2.0	

^{*1} The maximum input voltage is the upper limit of the DC voltage. Any higher input DC voltage would probably damage inverter.

^{*2} Any DC input voltage beyond the operating voltage range may result in inverter improper operating.

^{*3} Compatible TYPE II protection class according to EN/IEC 61643-11