

Smart String Inverter



Higher Revenue

Max. efficiency 98.65%



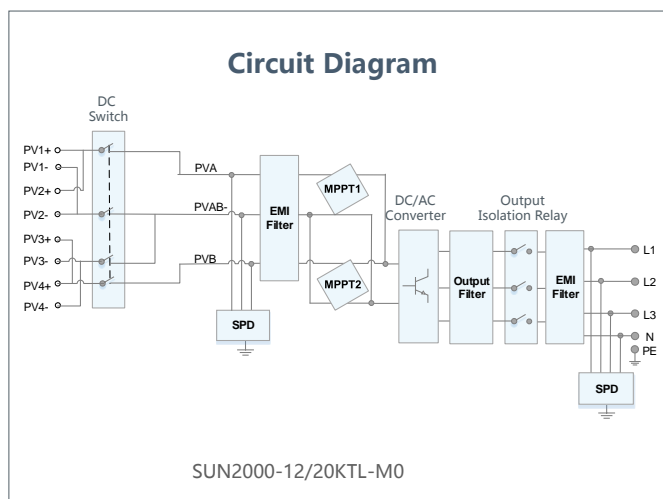
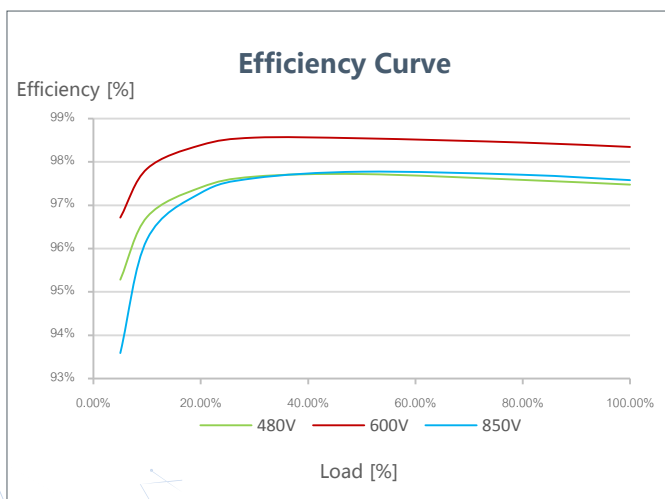
Simple & Easy

25 kg



Safe & Reliable

Arc fault protection



SUN2000-12/20KTL-M0 Technical Specification

Technical Specification	SUN2000-12KTL-M0	SUN2000-20KTL-M0
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Efficiency		
Max. efficiency	98.50%	98.65%
European weighted efficiency	98.00%	98.30%

Input		
Max. input voltage	1,080 V	
Start voltage	200 V	
Operating voltage range	160 V ~ 950 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	12,000 W	20,000 W
Max. apparent power	13,200 VA	22,000 VA
Rated output voltage	220 Vac / 230 Vac , default 3W / N+PE ; 380 Vac / 400 Vac, 3W+PE	
Rated AC grid frequency	50 Hz / 60 Hz	
Max. output current	20 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 lightning protection	Yes	
AC lightning protection	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 via Smart Dongle-WLAN; 4G / 3G / 2G via Smart Dongle-4G	
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	

Standard Compliance (more available upon request)		
Safety	EN/IEC 62109-1, EN/IEC 62109-2, IEC62116	
Grid connection standards	G98, G99, IEC61727, 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, DEWA 2.0	

Smart Dongle



Smart

Smart zero export control design
Support 3rd-party monitoring system ¹



Simple

Plug & Play
Support max. 10 devices



Reliable

IP65
Support auto reconnection

Technical Specification	Smart Dongle-WLAN	Smart Dongle-4G
General Data		
Max. number of manageable devices	10	
Max. number of manageable inverters	10 (Inverters connected via RS485)	
Connection interface	USB	
Installation	Plug-and-play	
Indicator	LED Indicator	
Dimensions (W * H * D)	130 x 48 x 33 mm (5.1 x 1.9 x 1.3 inch)	
Weight	90 g (0.2 lb.)	
Degree of protection	IP65	
Power consumption (typical)	2 W	3.5 W
Wireless Parameter		
Sim card type	/	mini-sim (15 mm*25 mm)
Supported standards & frequencies	802.11 b / g / n 2.4 GHz	4G: FDD-LTE / TDD-LTE 3G: WCDMA / HSDPA / HSUPA / HSPA+ 2G: GSM / GPRS / EDGE ²
Environment		
Operating temperature range	-30 °C to +65 °C (-22 °F to 149 °F)	
Relative humidity range	5 - 95% RH	
Storage temperature range	-40°C to +70°C (-40 °F to 158 °F)	
Max. operating altitude	4,000 m (13,123 ft.)	
Standard Compliance (more available upon request)		
Certificate	CE, RCM	CE, Type Approval for Thailand, MIC
Inverter Compatibility		
Inverter model	SUN2000-3/4/5/6/8/10KTL-M0, SUN2000-12/15/17/20KTL-M0	SUN2000-3/4/5/6/8/10KTL-M0 SUN2000-12/15/17/20KTL-M0 SUN2000-60KTL-M0

^{*1:} 3rd-party management system shall match the communication protocol with Huawei Smart Dongle.

^{*2:} For recommended carriers list and details on supported frequencies, please contact local distributors.

^{*3:} To ensure stable data transmission, Huawei suggests 4G dongle to be installed in areas with stable mobile signal (2G signal ≥4 bars, 3G/4G signal ≥3 bars).