



Higher Revenue

Max. efficiency 98.6%



Simple & Easy

17 kg



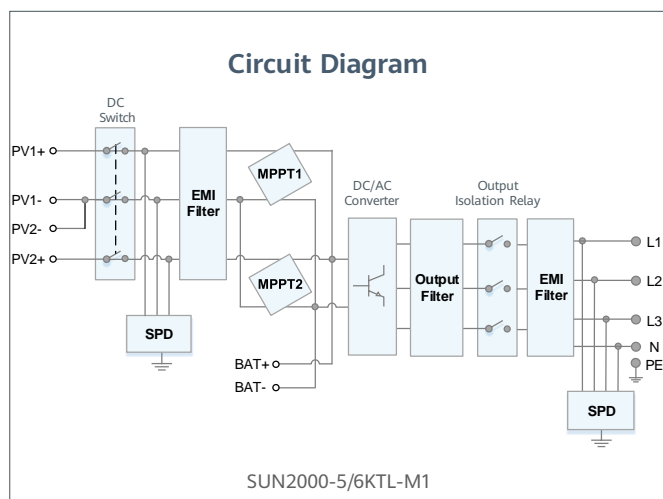
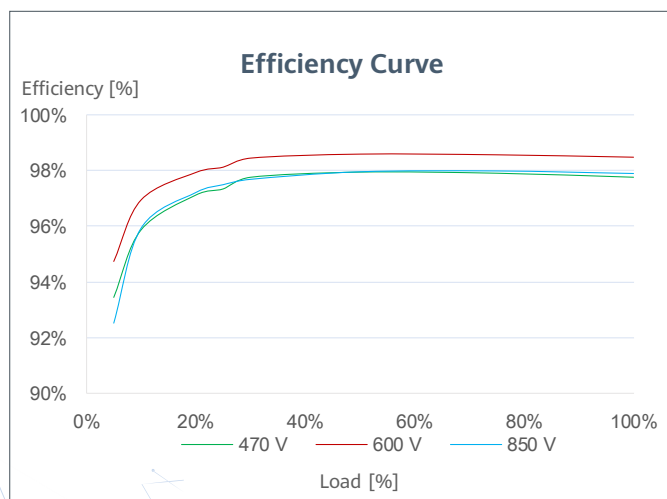
Battery Ready

Plug & Play battery interface



Safe & Reliable

Arc fault protection



SUN2000-5/6KTL-M1
Technical Specification

Technical Specification	SUN2000-5KTL-M1	SUN2000-6KTL-M1
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Efficiency

Max. efficiency	98.4%	98.6%
European weighted efficiency	97.5%	97.7%

Input

Recommended max. PV power ¹	10,250 Wp	12,300 Wp
Max. input voltage	1,100 V	
Operating voltage range	140 V ~ 980 V	
Start-up voltage	200 V	
Full power MPPT voltage range	240 V ~ 850 V	285 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

Grid connection	Three-phase	
Rated output power	5,000 W	6,000 W
Max. apparent power	5,500 VA	6,600 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	8.5 A	10.1 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	AS 4777, G98, G99, EN 50438, CEI 0-21, VDE-AR-N-4105, VDE-AR-N-4110, C10/11, ABNT, UTE C15-712, RD 1699, TOR D4, NRS 097-2-1, IEC61727, IEC62116, DEWA 2.0

^{*1} Inverter max input PV power is 16,500 Wp when long strings are designed and fully connected with SUN2000-375W-P2 power optimizer.

^{*2} VDE-AR-N-4105: 10,000 VA; C10 / 11: 10,000 VA

^{*3} SUN2000-5~6KTL-M1 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), N-type (nPERT, HIT)

^{*4} Compatible battery solution will be available in 2020 Q1



HUAWEI SUN2000L Inverter Warranty and Service Conditions

Huawei Technologies (APAC) Co., Ltd

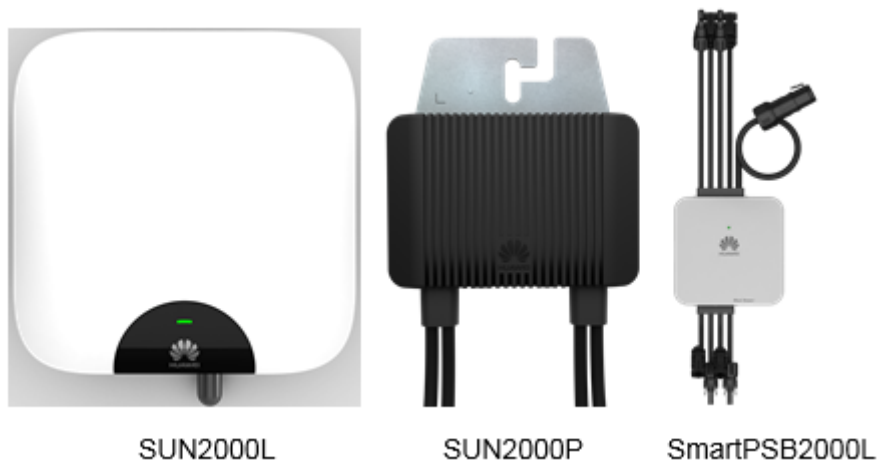


Huawei SUN2000L Inverter

Warranty and Service Conditions

These warranty and service conditions apply to the following products:

- SUN2000L-2/3/4/4.6/5KTL
- SUN2000P-375W
- SmartPSB2000L



Warranty period:

Warranty Period			
Product	Warranty Commencement	Warranty Period	
SUN2000L Series Products	Warranty commences from the 90 th day after the date of the product shipment from Huawei, or the date on which Huawei receives a service request for this product, whichever is earlier	60 months Spare part, Logistic.	-
SUN2000P-375W Smart PV Optimizer		25 years	-
SmartPSB2000L Smart PV Safety Box		60 months	-

Warranty services:



Huawei provides remote support and hardware support for solar inverter maintenance.

Warranty Services			
Warranty Service	Service Classification	Service Content	Availability
	Remote Support	Help Desk	Hotline: http://e.huawei.com/en/service-hotline E-mail: APSupport@huawei.com 09:00 to 18:00 Monday to Friday (Business Days only)
		Remote Technical Support	5*8h (response within 30Min)
		Online Technical Support	http://e.huawei.com/en/service-hotline
	Hardware Support	Hardware support	2 Business Days-Shipment*

*Huawei will use commercially reasonable efforts to ship a replacement part within two (2) business days after an RMA is issued. Actual delivery times may vary depending on Customer location.

➤ Remote Support

Remote Support means Huawei provides solutions for technical enquiries or problems relating to the solar inverter products under warranty by telephone or e-mail. It includes Help Desk, Remote Technical support and Online Technical Support (<http://e.huawei.com/en/service-hotline>).

- **Help Desk** provides technical support to Huawei's customers for solar inverter products.
[Email: APSupport@huawei.com](mailto:APSupport@huawei.com)
- **Remote Technical Support** includes technical enquiry and problem handling. The technical enquiry service provides consultation services in respect of Huawei inverter products. The problem handling service is to provide solutions to customers for inverter-related problems.

➤ Hardware Support

During the Warranty Period, Huawei guarantees that all solar inverter hardware purchased shall be from defects in material, fabrication and workmanship.

- Solar inverter products that are defective in material, fabrication or workmanship or do not meet the published specifications shall be replaced free of charge.
- Huawei will send the replacement device to the customer site within 2 Business Days after

device fault being confirmed. After receiving the replacement device, customer should prepare the defective device (packed in the packaging from the replacement device) within 15 Business Days of receipt of the replacement device and Huawei will be in charge of return. Defective devices not returned in time for any reason may be charged for.

- The replacement device provided by Huawei will be functionally equivalent to the customer's defective device (in features, functions, compatibility, provided with default software version).
- The replacement device provided by Huawei will have a Warranty Period of twelve (12) months from the date of receipt by the customer, or the remainder of the original device warranty period, whichever is longer.
- Huawei will bear the costs of on-site attendances, if applicable.

Disclaimer:

- All above mentioned warranty and support services apply only to SUN2000L Series Products.
- Accessories and consumable parts, including but not limited to cables and connectors, are not covered by the warranties and services set out above.
- If Huawei cannot fulfill its service commitments within the committed time period due to non-Huawei causes, Huawei should be exempted from responsibilities and related compensations on the fulfillment of the SLA commitments. If on-site service is required, traveling time should be excluded from the SLA time.
- Warranties and services shall not apply in the following circumstances:
 - Damage as a result of force majeure (natural disasters, fires and wars).
 - Damage as a result of natural wear and tear.
 - Direct damage caused by failure to meet system requirements provided in writing including site running environment or external electricity parameters.
 - Damage from lightning due to unsuitable system design.
 - Large scale damage to hardware or data due to customer's negligence, inappropriate operation or intentional damage.
 - Damage caused by non-compliance with the operation manual of the equipment.

- System damage caused by the customer or third parties, including relocation and installation of the system not in compliance with Huawei's requirements or instructions.
- Damage caused by adjustment, change or removal of identification marks not in compliance with Huawei requirements or instructions.
- System damage directly caused by problems in customer's infrastructure.

Huawei Service Organization

Huawei has built up an extensive service organization world-wide. We are serving our customers with warranty services and spare parts for a wide range of technologies.

For support of the warranty services for SUN2000 products, Huawei has defined a support organization to support the process as depicted below:

