Always Available for Highest Yields

FusionSolar®
Smart PV Solution

About Huawei

Huawei is a global leader of ICT solutions. Continuously innovating based on customer needs, enhancing customer experiences and creating customer values. In 2016, Huawei's sales revenue is estimated at USD74.9 billion, a year on year increase of 32%.

- As of December 31, 2016, Huawei has about 180,000 employees. Of the headcount, 45% or about 80,000 employees are specialized in R&D; 71% of the employees working overseas are local recruits.
- Huawei has 12 Regional Headquarters, 15 R&D institute and centers, 36 joint innovation centers and 45 training centers worldwide. Products and solutions are applied in over 170 countries and regions worldwide.
- As of December 31, 2016, Huawei has filed a total of 57,632 patent applications in China and 39,613 patent applications outside of China. A total of 62,519 patent applications have been granted.

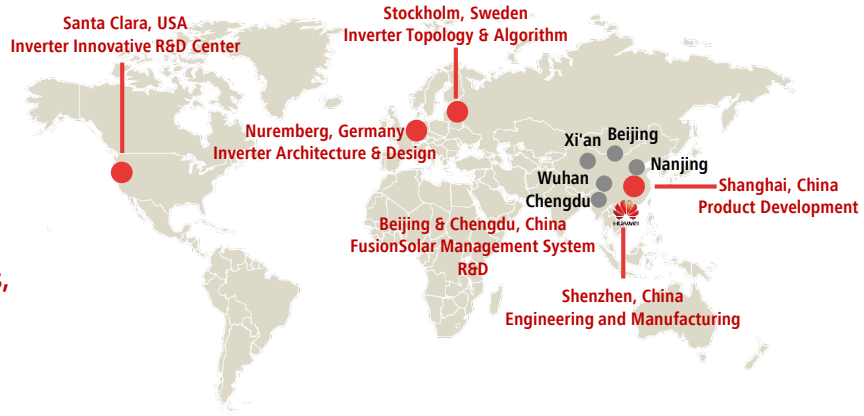
Always Available for Highest Yields

Global R&D Centers

9 Global R&D Centers of Network Energy

2000+Engineers,100+PhDs., 500+Inverter Engineers

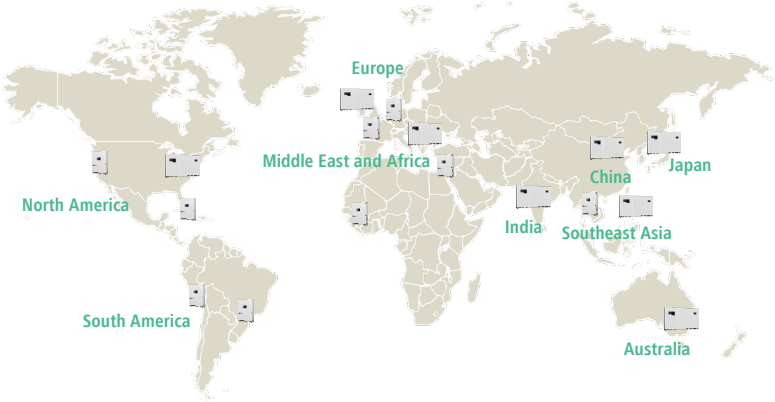
550+patents,100+Inverter patents, 90%Innovative patents



Global Application

Huawei Smart PV Solutions are widely deployed worldwide.

According to IHS & GTM, Huawei ranks No.1 in terms of inverter global shipment.



Global Service

Where there are our products, there are our services

170+Counties and regions
129+Spare parts center
300+Global warehouse
22,000+Service staff

Smart PV Controller
(SUN2000L-2/3/3.68/4/4.6/5KTL)

Higher Revenue

- Max.Efficiency 98.6%, European Efficiency 98.0%
- Compatible with Huawei Solar Power Optimizer for higher yields

Simple & Easy

- 10kg, 16.5L, allows one person easier installation
- Supports one-click commission & registration
- Supports one-click remote firmware update
- Supports one-click string I-V curve remote diagnosis

Battery Ready

- Integrated Plug & Play energy storage interface

Safe & Reliable

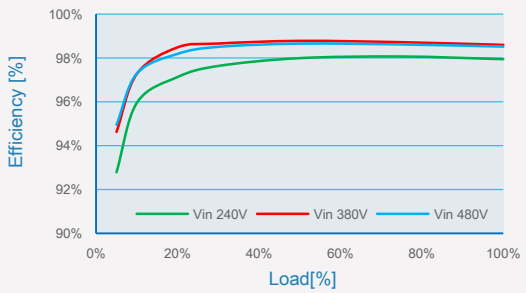
- IP65, Natural cooling
- Integrated surge arresters for both DC and AC

Smart PV Controller (SUN2000L-2/3/3.68/4/4.6/5KTL)

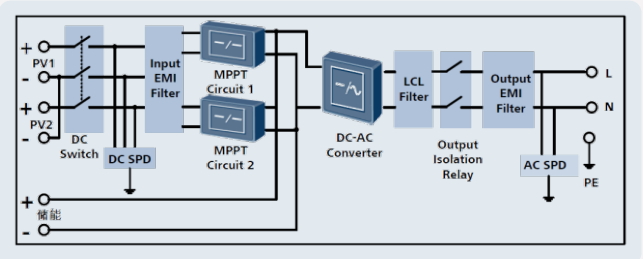
Technical Specification	SUN2000L-2KTL	SUN2000L-3KTL	SUN2000L-3.68KTL	SUN2000L-4KTL	SUN2000L-4.6KTL	SUN2000L-5KTL
Efficiency						
Max. efficiency	97.7 %	98 %	98.3 %	98.3 %	98.6 %	98.6 %
European efficiency	97.1 %	97.4 %	97.7 %	97.7 %	98 %	98 %
Input						
Max. PV power	2660 Wp	3990 Wp	4968 Wp	5400 Wp	6210 Wp	6750 Wp
Max. input voltage	600 V					
Operating MPPT voltage range	90 V~520 V					
Start-up voltage	120 V					
Full power MPPT voltage range	120V~480 V	160 V~480 V	190 V~480 V	210 V~480 V	260 V~480 V	260 V~480 V
Rated input voltage	380 V					
Max. input current per MPPT	11 A					
Max. short circuit current per MPPT	13.2 A					
Number of MPP trackers	2					
Max. number of inputs	2					
Output						
Rated output power	2000 W	3000 W	3680 W	4000 W	4600 W	5000 W
Max. AC active power (PF=1)	2000 W	3000 W	3680 W	4000 W	4600 W	5000 W
Rated output voltage	220 V / 230 V					
Rated AC grid frequency	50 Hz / 60 Hz					
Rated output current	9.1 A	14 A	16 A	18.2 A	21 A	23 A
Adjustable power factor	0.8 leading ... 0.8 lagging					
Max. total harmonic distortion	< 3 %					
Protection						
Protection	Anti-Islanding protection; DC reverse polarity protection; Insulation monitoring; DC surge arrester; AC surge arrester; Residual current detection; AC overcurrent protection; AC short-circuit protection; AC over-voltage protection; Over-heat protection					
General Data						
Operating temperature range	-40 ~ +70 ℃					
Relative humidity	0 %RH～100 %RH					
Operating altitude	0-4000 m					
Cooling	Natural Convection					
Noise emission	< 25 dB(A)					
Display	LED Indicators					
Communication	RS485, Wifi					
Weight	10 Kg					
Dimension	375X375X117 mm					
Degree of protection	IP65					
Self-consumption at night	<1 W (with battery enabling <5 W)					
Battery Compatibility						
Battery	LG Chem RESU					
Voltage range	350~450 Vdc					
Max. current	10 A					
Communication	RS485					
Standards Compliance						
Safety & EMC	EN/IEC 61000-1, EN/IEC 61000-2, EN/IEC 61000-3, EN/IEC 61000-4, EN/IEC 62109-1, EN/IEC 62109-2					
Grid connection standards	G83/2,G59/3, EN 50438, CEI 0-21, VDE-AR-N-4105, VDE0126, UTE C 15-712-1, AS 4777.2/3					

* Please be aware that preliminary version datasheet is for reference only, changes may occur without notice.

Efficiency Curve



Circuit Diagram



Smart PV Power Optimizer

(SUN2000P-375W-M)

Higher Revenue

- Max.Efficiency 99.6%, weighted efficiency 99.0%
- Support module-level MPP tracking, avoid module mismatch, increase yields by up to 30%

Simple & Easy

- Wider input voltage range, compatible with high open circuit voltage (Voc) modules
- Support frame mount, allow fast onsite installation
- Flexible system design, allow installation under shade or with different directions, allow mixture use of different modules in one string.

Safe & Reliable

- IP68, support outdoor application

Smart PV Power Optimizer(SUN2000P-375W)

Technical Specification	SUN2000P-375W-M
	Input
Rated input power	375 W
Absolute maximum input voltage	80 V
MPPT operating voltage range	10-80 V
Max. input current	12 A
Max. efficiency	99.6 %
Weighted efficiency	99 %
Overvoltage category	II
	Output
Max. output voltage	80 V
Max. output current	15 A
Output bypass	Yes
	Standard Compliance
EMC	FCC Part15 Class B, IEC61000-6-2, IEC61000-6-3
Safety	IEC62109-1 (class II safety), UL1741
RoHS	Yes
	General Specification
Maximum allowed system voltage	1000 V
Dimensions (W x L x H)	5.2 x 3.3 x 1 in / 131 x 83 x 26.4 mm
Weight (including cables)	1.4 lb / 0.65 kg
Input connector	MC4
Output connector	MC4
Output wire length	47 in / 1.2 m
Operating temperature/humidity range	-40 to 85 ℃ / 0-100 %
Protection rating	IP68
	PV System Design Using A SUN2000L Inverter
Minimum String Length	According to inverter design rules & PV module datasheet
Maximum String Length	
Maximum Power per String	
Parallel strings of different lengths or orientations	Yes

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HUAWEI TECHNOLOGIES Duesseldorf GmbH

Südwestpark 60 4.0G, 90449 Nürnberg, Germany

Tel: 49 911 255 22 3053

Fax: 49 911 255 22 3090

info.energyeu@huawei.com

HUAWEI TECHNOLOGIES CO., LTD.

Huawei Industrial Base

Bantian Longgang

Shenzhen 518129, P.R. China

Tel.: 400-822-9999

Version No.: EU-V1.0-20170223

www.huawei.com/solar