



# PRESENTATIONS ---SHENZHEN SOLARPARTS INC.

Philip Wang, Shenzhen China  
Jan 2022

# CONTENTS

## 01 / Company Introduction

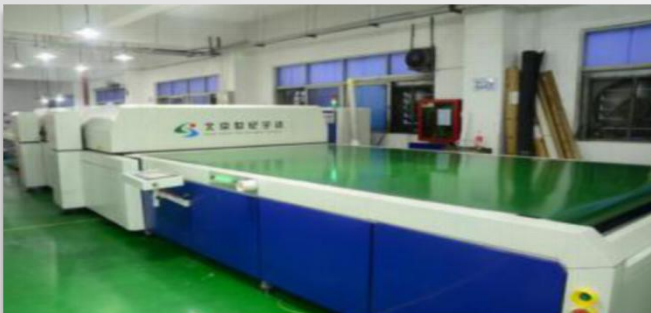
- About Solarparts
- Key Figures& CEO
- Advantages, factory tour  
Test approval certificates
- Sales Network

## 02 / Product Introduction

- Semi-flexible solar panel
- Portable Solar Panel
- Rigid Solar Panel
- Controller, accessories  
And typical applications.

# 1. COMPANY INTRODUCTION

1. Founded in 2011, Shenzhen Solarparts Inc./Shenzhen Puguang Solar Energy Co.,Ltd., is a professional manufacturer in solar panel and a national high-tech enterprise, which specializes in R&D, production, sales and service of semi-flexible solar panels, portable solar panels and rigid solar panels, Micro Solar Panels and the DIY Solar Kits etc..
2. Since the establishment of Solarparts, based on the corporate culture of "Gratefulness, Development, Growth, Professionalism, and Focus", it has been adhering to the business philosophy of "One World, One Dream" to change the future, and the service concept of "people-oriented, quality-based" to face the world, and takes strict quality control as the company's top priority.
3. Solarparts has introduced international advanced equipments. Through careful design and strictly in accordance with the requirements of the quality management system (ISO9001: 2008) ,the company's various management policies are improved, and the various production processes are effectively controlled. Our products have got the certificate for the CE, ROHS, IEC, FCC, etc.
4. Solarparts mainly produces rigid solar modules, semi-flexible modules and folded solar modules Micro Solar Panels and the DIY Solar Kits, with different models and specifications, and makes full use of its core materials and solar modules to completely produce other special application products and projects.
5. Our products are mainly exported to Europe, North America, Oceania, Southeast Asia, etc.



# PHILIP WANG BRIEF INTRODUCTION

Name: Wang, Philip N.Y.    Borned July 1980, Yongzhou, Hunan Province

## Education Background:

1998-2002, Hunan Institute of Engineering, Marketing Bachelor

2009-2011, South China of Technology, Management Master

## Work Experiences :

2002-2005 USA Joint Venture Kinetek De Sheng Motor Co.,ltd. Now part of JAPAN NIDEC, sales manager charge for USA market.

2005-2007 Shenzhen Jieshun Technology(Shenzhen Stock, 002609), Car park system and Metro management integration solutions provider. Marketing director for ASEAN countries

2007-2008, Singapore AIM PARKING STY LIMITED, Charge Singapore and ASEAN markets.

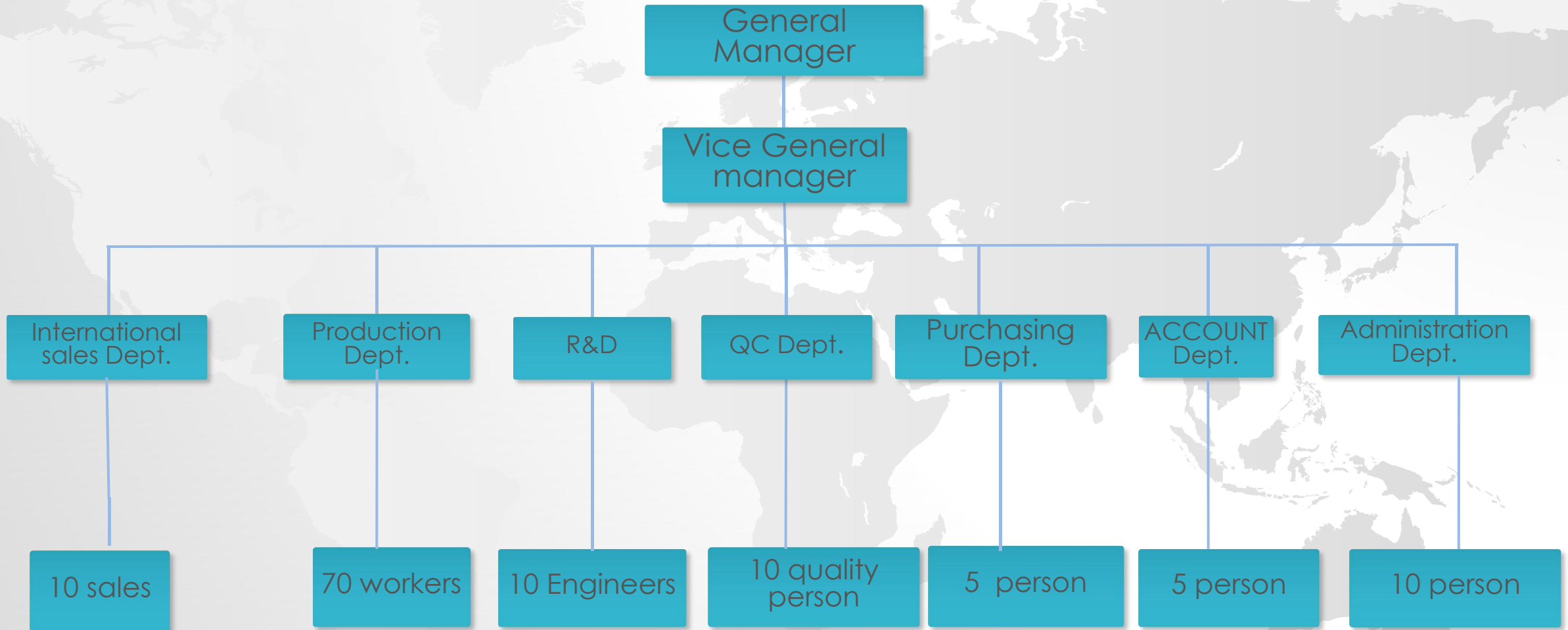
2008-now, Set-up Shenzhen Solarparts Inc and mainly provide the solar panel, off- or on-grid solar systems solutions.



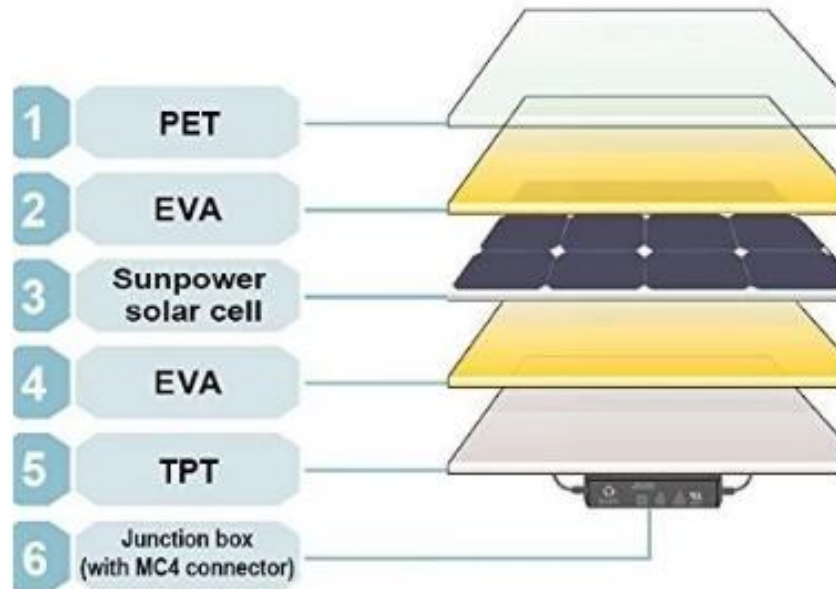
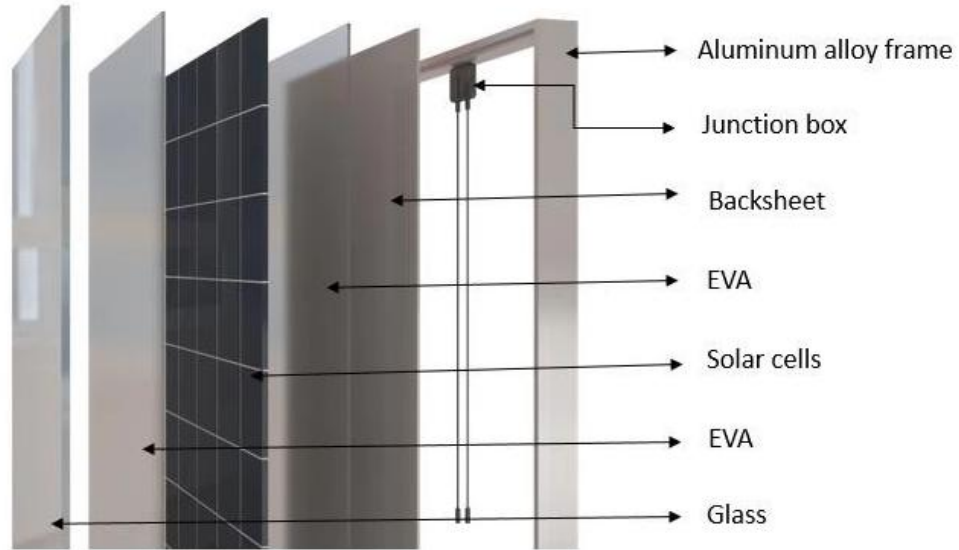


## 2 SOLARPARTS KEY FIGURES

- 1. Registered & Paid Capital: USD1.58 Million(RMB10 Million);
- 2. Fabricate space: 4000 square meter;
- 3. Fabrication Automatically Production Line: Two Lines, one for full automatic production, another for half-automatic production;
- 4. Annual Fabrication Capacity: 100 Million Watt;
- 5. Employee: Total for 120 person, include 20 engineers, 30 sales & Administrative, 70 trained and skillful workers.
- 6. Product ranges; Flexible Solar Panel, Rigid Glass Solar Panel, OFF- or On-grid Systems. Parts and accessories.
- 7. Turnover and regions:
  - 2021, USD16 Million. 30% from China Mainland, 40% from EU Countries, 20% from North American Countries, 10% from the rest countries.
  - 2022, Est. USD18.4 Million, expected 15% increasing globally.



# SOLAR PANEL STRUCTURE AND PRODUCTION PROCESS



## Production Process



Test the cell



Laser cutting



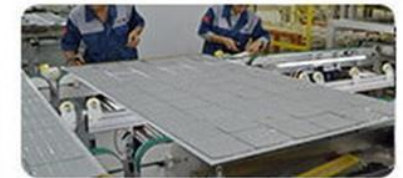
Cell sorting



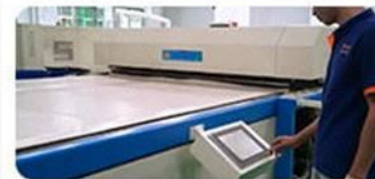
Cell welding



EL test



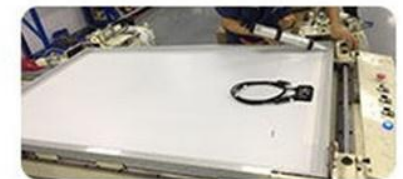
Stacked



laminated



Framing



Install the junction box



Cleaning



IV test

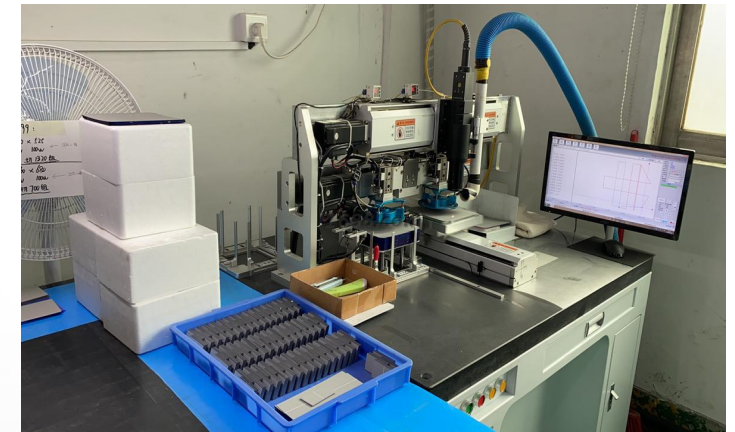
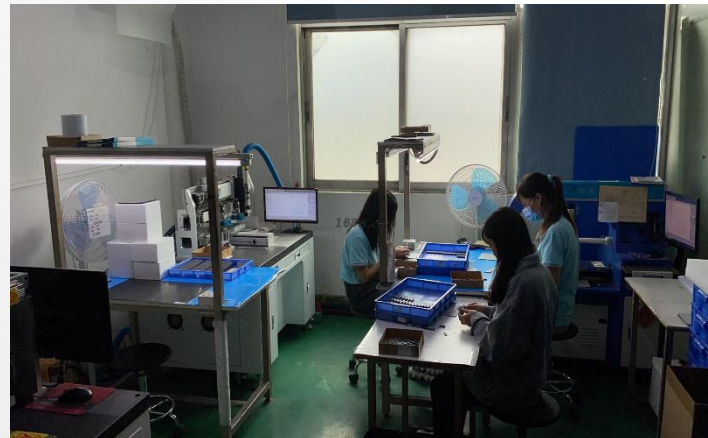


pack



# PHYSICAL FACTORY TOUR PIC-1/2

• 1






• 1





# PATENTS, QUALIFICATIONS, QUALITY SYSTEM CERTIFICATE, PRODUCT TEST APPROVAL-1/3

ISO 9001



## 萬泰認證

### CERTIFICATE OF REGISTRATION

*This is to certify that the Management System established by*

### Shenzhen Puguang Solar Energy Co., Ltd.

Registered Address: 4F, Building A3, Xinglian Industrial Zone, Pingxin North Road, Pinghu Street, Longgang District, Shenzhen, Guangdong Province, P.R. China  
Audit Address: 4F, Building A3, Xinglian Industrial Zone, Pingxin North Road, Pinghu Street, Longgang District, Shenzhen, Guangdong Province, P.R. China  
5F, 4F, Building 2, No.51 Gexhen East Road, Pinghu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong Province, P.R. China  
Unified Social Credit Code: 914403005840521374




Has been assessed to comply with the requirements of the international standard

GB/T 19001-2016idt ISO9001:2015


Scope of certification

Design, Development and Production of the Mono/Poly Crystalline Solar Modules

NO: 15/21Q7294R11    DATE OF ISSUE: Aug,31, 2021    VALID UNTIL: Sep,16, 2023  
The Certificate Information Can be Obtained by Visiting <http://www.cnca.gov.cn>.

中国认可  
国际互认  
管理体系  
MANAGEMENT SYSTEM  
CNAS C015-M



Second Surveillance

Third Surveillance

The surveillance audit shall be conducted at least once each year within the validity of registration certificate, and the interval between two surveillance audits shall not exceed 12 months.  
The certification organization must conduct surveillance audit regularly and the registration certificate continues effective after the eligible surveillance audit.  
Every certificate, which the certification scope within the required of administrative license or national mandatory certification requirements will become invalid when the license or mandatory certification lose effectiveness

Hangzhou WIT Assessment Co., Ltd.  
131460, International Survey,  
No.1750 Jianshe Avenue, Binjiang  
District, Hangzhou • China

### Shenzhen Global Test Service Co., Ltd.

### Declaration of Conformity

Certification number: GTS20190906002-1-1  
Issue date: Sep. 24, 2019

In accordance with the following Applicable Directives:  
2014/53/EU  
Electromagnetic Compatibility

The test results are traceable to the international or national standards.

Applicant: Shenzhen Puguang Solar Energy Co., Ltd.  
the 4th Floor, A3 Building, Xin Lian Industrial Park, Ping xin North Road Pinghu Town Shenzhen 518112 China

Manufacturer: Shenzhen Puguang Solar Energy Co., Ltd.  
the 4th Floor, A3 Building, Xin Lian Industrial Park, Ping xin North Road Pinghu Town Shenzhen 518112 China

Equipment under test: foldable solar panel


Model number: PG-FSP5W  
PG-FSP6W, PG-FSP7W, PG-FSP10W, PG-FSP12W, PG-FSP14W,  
PG-FSP15W, PG-FSP18W, PG-FSP20W, PG-FSP21W, PG-FSP36W,  
PG-FSP40W, PG-FSP50W, PG-FSP55W, PG-FSP60W, PG-FSP80W,  
PG-FSP100W, PG-FSP110W, PG-FSP120W, PG-FSP140W,  
PG-FSP150W, PG-FSP160W, PG-FSP180W, PG-FSP200W,  
PG-FSP220W, PG-FSP250W, PG-FSP300W, PG-FSP320W,  
PG-FSP330W, PG-FSP350W, PG-FSP400W

Listed Model


Applied Standards and Test Reports	
EN 61000-6-3:2007+A1:2011/EN 61000-6-1: 2007	GTS20190906002-1-1
EN 61000-3-2:2014/EN 61000-3-3:2013	

Laboratory Name: Shenzhen Global Test Service Co., Ltd.  
No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong  
Tel: 0755-28717088    Fax: 0755-28717111  
Http://www.gtscert.com    E-mail: gts\_sz@gtscert.com

Note:  
The certification is only valid for the equipment and configuration described, in conjunction with the test data detailed above. The CE mark as shown beside can be used, under the responsibility of the manufacturer, after completion of an EC Directive of Conformity and compliance with relevant EC Directive.



Authorized by: *Simon Hu*



CERTIFICATE



### CERTIFICATE OF CONFORMITY

### RoHS

No.: EBO1909058-V148

The following products have been tested by us with the listed standards and to be certified that the hazardous substance are in compliance with the Directive:  
(EU) 2015/863 amending Annex II to Directive 2011/65/EU

Applicant: SHENZHEN PUGUANG SOLAR ENERGY CO., LTD  
Address: The 4th Floor, A3 Building, Xin Lian Industrial Park, Ping Xin North Road Pinghu Town Shenzhen 518112 China

Manufacturer: SHENZHEN PUGUANG SOLAR ENERGY CO., LTD  
Address: The 4th Floor, A3 Building, Xin Lian Industrial Park, Ping Xin North Road Pinghu Town Shenzhen 518112 China

EUT: FOLDABLE SOLAR PANEL  
Model No.: PG-FSP-10W, PG-FSP6W, PG-FSP6W, PG-FSP7W,  
PG-FSP10W, PG-FSP12W, PG-FSP14W, PG-FSP15W,  
PG-FSP18W, PG-FSP20W, PG-FSP21W, PG-FSP36W,  
PG-FSP40W, PG-FSP50W, PG-FSP55W, PG-FSP60W,  
PG-FSP60W, PG-FSP100W, PG-FSP110W, PG-FSP120W,  
PG-FSP140W, PG-FSP150W, PG-FSP160W, PG-FSP180W,  
PG-FSP200W, PG-FSP220W, PG-FSP250W, PG-FSP300W,  
PG-FSP320W, PG-FSP330W, PG-FSP350W, PG-FSP400W

Test Standards: IEC 62321-3:2013  
Reference to report: EBO1909058-C147

The test results apply only to the particular sample tested and to the specific tests carried out. Technical report and documentation are at the Holder's disposal. This certificate applies specifically to the sample investigated in our test reference number only. The CE markings as shown below can be affixed on the product after preparation of necessary technical documentation. Other relevant Directives have to be observed.






Shenzhen EBO Testing Center  
3/F, Building A, Qinye Business Center, Xixian Sixth Road, 62th District, Bao'an, Shenzhen, China.  
Tel: 86-755-33126608    ebo@eboatest.com    www.eboatest.com



# PATENTS, QUALIFICATIONS, QUALITY SYSTEM CERTIFICATE, PRODUCT TEST APPROVAL-2/3

**HTL**  
Horton Compliance Laboratories

Page 1 of 11 Report No.: HT17DR-0520791

### Test Report

IEC 61730-2 (MST 51, MST 52, MST 53, MST 54)  
PV Module Safety Qualification Part 2: Requirements for testing

Report reference No.: HT17DR-0520791

Tested by (name+ signature): Gault Zhang

Approved by (name+ signature): Tony Yang

Date of issue: Jun. 07, 2017

Testing Laboratory Name: Horton Compliance Laboratories (Shenzhen) Co., Ltd.

Address: 5/F, Building C, No. 73, Huahui Road, Daling Street, Longhua District, Shenzhen 518109, China

Testing location: Same as above

Applicant's Name: Shenzhen Puguang Solar Energy Co., Ltd.

Address: Floor 4<sup>th</sup>, Building A3, Xinglian Industrial Park, Pinghu North Road, Pinghu Town, Shenzhen 518112 China

Standard: EN 61730-2:2007+A1:2012

Test procedure: Type test

Procedure deviation: N/A

Non-standard test method: N/A

Test item description: Flexible solar panel

Manufacturer: Same as applicant

Trademark: solarparts

Model / Type reference: PG-FSP200W ( other models see model list)

Rating(s): 36 VDC, 200W, 5.6A

Shenzhen BCTC Technology Co., Ltd.  
A Floor 3, 44 Building, Tanglang Industrial Park B,  
Taoyuan Street, Nanshan District, Shenzhen, China

**Certificate of Compliance**

Certificate Number: BCTC-141212557

Applicant: Shenzhen Solarparts Inc  
3rd Floor No.139 Tonggen Road Shang Mu Gu Industrial Park Pinghu Town Shenzhen 518112 C

Manufacturer: Shenzhen Solarparts Inc  
3rd Floor No.139 Tonggen Road Shang Mu Gu Industrial Park Pinghu Town Shenzhen 518112 C

Product: Crystalline silicon Temp

M/N: PG-GSP30W, PG-GSP5W, PG-GSP6W, PG-GSP25W, PG-GSP40W, PG-GSP75W, PG-GSP80W, PG-GSP95W, PG-GSP10W, PG-GSP135W, PG-GSP1P

Test Standard: EN61215:2005

The EUT described above has been tested: compliance with the council LVD directive 20 demonstrate the compliance with this LVD D test report number: BCTC-141212558.

**CE**

This certificate of conformity is based ( sample(s) of the above mentioned prod of the whole product and relevant. Dirs Tel: 400-788-8558 0755-33019888 Http:

Shenzhen BCTC Technology Co., Ltd.  
A Floor 3, 44 Building, Tanglang Industrial Park B,  
Taoyuan Street, Nanshan District, Shenzhen, China

**Certificate of Compliance**

Certificate Number: BCTC-141212557

Applicant: Shenzhen Solarparts Inc  
3rd Floor No.139 Tonggen Road Shang Mu Gu Industrial Park Pinghu Town Shenzhen 518112 China

Manufacturer: Shenzhen Solarparts Inc  
3rd Floor No.139 Tonggen Road Shang Mu Gu Industrial Park Pinghu Town Shenzhen 518112 China

Product: flexible sunpower solar panel

M/N: PG-FSP18W, PG-FSP3W, PG-FSP4W, PG-FSP6W, PG-FSP9W, PG-FSP12W, PG-FSP18W, PG-FSP25W, PG-FSP30W, PG-FSP40W, PG-FSP50W, PG-FSP60W, PG-FSP75W, PG-FSP80W, PG-FSP85W, PG-FSP90W, PG-FSP95W, PG-FSP100W, PG-FSP110W, PG-FSP120W, PG-FSP130W, PG-FSP135W, PG-FSP140W, PG-FSP150W, PG-FSP180W, PG-FSP200W.

Test Standard: EN 61000-6-1: 2007  
EN 61000-3-2: 2006+A1:2009+A2:2009; EN 61000-3-3: 2013  
EN 61000-6-3: 2007+A1:2011  
EN 61000-4-2: 2009, EN 61000-4-3: 2006+A1:2008+A2:2010  
EN 61000-4-4: 2012, EN 61000-4-5: 2006  
EN 61000-4-6: 2014, EN 61000-4-8: 2010, EN 61000-4-11: 2004

The EUT described above has been tested by us with the listed standards and found in compliance with the council EMC directive 2004/108/EC. It is possible to use CE marking to demonstrate the compliance with this EMC Directive. It is only valid in connection with the test report number: BCTC-141212557.

**CE**

This certificate of conformity is based on a single evaluation of the submitted sample(s) of the above mentioned product. It does not imply an assessment of the whole product and relevant. Directives have to be observed.  
Tel: 400-788-8558 0755-33019888 Http://www.bctc-lab.com Http://www.bctc-lab.com

**Shenzhen Global Test Service Co., Ltd.**

### Declaration of Conformity

Certification number: GTS20190906002-1-1  
Issue date: Sep. 24, 2019

In accordance with the following Applicable Directives:  
2014/53/EU

**Electromagnetic Compatibility**

The test results are traceable to the international or national standards.

Applicant: Shenzhen Puguang Solar Energy Co., Ltd.  
the 4th Floor, A3 Building, Xin Lian Industrial Park, Ping xia North Road Pinghu Town Shenzhen 518112 China

Manufacturer: Shenzhen Puguang Solar Energy Co., Ltd.  
the 4th Floor, A3 Building, Xin Lian Industrial Park, Ping xia North Road Pinghu Town Shenzhen 518112 China

Equipment under test: foldable solar panel

Model number: PG-FSP5W  
PG-FSP6W, PG-FSP7W, PG-FSP18W, PG-FSP12W, PG-FSP14W, PG-FSP15W, PG-FSP18W, PG-FSP25W, PG-FSP21W, PG-FSP30W, PG-FSP40W, PG-FSP50W, PG-FSP53W, PG-FSP60W, PG-FSP80W, PG-FSP100W, PG-FSP110W, PG-FSP120W, PG-FSP140W, PG-FSP150W, PG-FSP160W, PG-FSP180W, PG-FSP200W, PG-FSP220W, PG-FSP250W, PG-FSP300W, PG-FSP320W, PG-FSP330W, PG-FSP350W, PG-FSP400W

Listed Model

**Applied Standards and Test Reports**

EN 61000-6-3:2007+A1:2011/EN 61000-6-1: 2007 EN 61000-3-2:2014/EN 61000-3-3:2013	GTS20190906002-1-1
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Laboratory Name: Shenzhen Global Test Service Co., Ltd.  
No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.96, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong  
Tel: 0755-28717088 Fax: 0755-28717111  
Http://www.gtsort.com E-mail: gts\_sz@gtsort.com

Note:  
The certification is only valid for the equipment and configuration described, in comparison with the test data detailed above. The CE mark as shown beside can be used, under the responsibility of the manufacturer, after completion of an EC Directive of Conformity and compliance with the relevant EMC Directive.

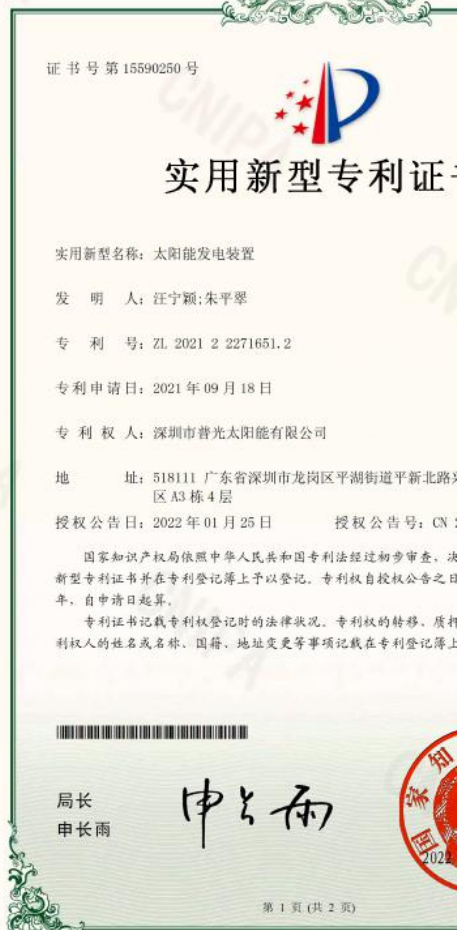
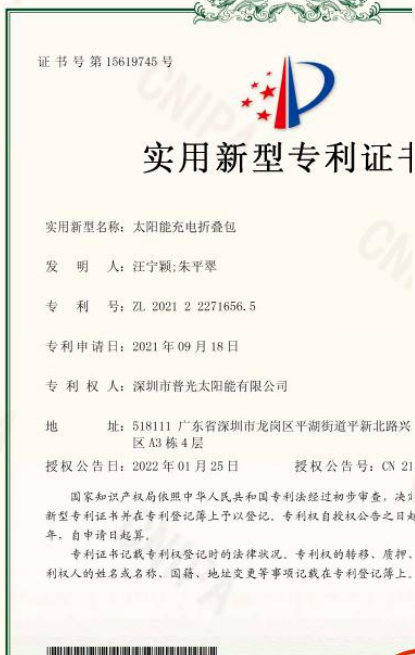
**CE**

Authorized by: Simon Hu

**GTS**



# PATENTS, QUALIFICATIONS, QUALITY SYSTEM CERTIFICATE, PRODUCT TEST APPROVAL-3/3



<b>GTS</b> Shenzhen Global Test Service Co., Ltd. No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong	
<b>TEST REPORT</b> FCC 47 CFR Part 15 Subpart B Radio Frequency Devices – Unintentional Radiators – Limits and methods of measurement ANSI C63.4: 2014 American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	
Report Reference No.	GTS20190906002-1-2
Date of issue	Sep. 16, 2019
Testing Laboratory Name	Shenzhen Global Test Service Co.,Ltd.
Address	No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong
Reviewed by (Testing Engineer)	Tracy Hu
Approved by (Manager)	Simon Hu
Applicant's name	Shenzhen Puguang Solar Energy Co.,Ltd
Address	the 4th Floor, A3 Building, Xin Lian Industrial Park, Ping xin North Road Pinghu Town Shenzhen 518112 China
Manufacturer's name	Shenzhen Puguang Solar Energy Co.,Ltd
Address	the 4th Floor, A3 Building, Xin Lian Industrial Park, Ping xin North Road Pinghu Town Shenzhen 518112 China
Test specification:	
Standard	47 CFR FCC Part 15 Subpart B ANSI C63.4: 2014
Receiver Date	Sep. 9, 2019
Test Period	Sep. 12, 2019
Test item description	foldable solar panel
Trade Mark	/
Model/Type reference	PG-FSP5W
Listed Models	PG-FSP6W,PG-FSP7W,PG-FSP10W,PG-FSP12W,PG-FSP14W, PG-FSP15W,PG-FSP18W,PG-FSP20W,PG-FSP21W, PG-FSP36W,PG-FSP40W,PG-FSP50W,PG-FSP55W, PG-FSP60W,PG-FSP80W,PG-FSP100W,PG-FSP110W, PG-FSP120W,PG-FSP140W,PG-FSP150W,PG-FSP160W, PG-FSP180W,PG-FSP200W,PG-FSP220W,PG-FSP250W, PG-FSP300W,PG-FSP320W,PG-FSP330W,PG-FSP350W, PG-FSP400W
Ratings	Input: 3-20Vdc, 0.5-50A, 5-400W
Result	PASS
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# SALES NETWORK

Sales volume Percentage



■ 1 EU Countries ■ 2 North American ■ 3 China Mainland ■ 4 Others





# GLOBAL EXHIBITIONS PROMOTIONS



Canton Fair



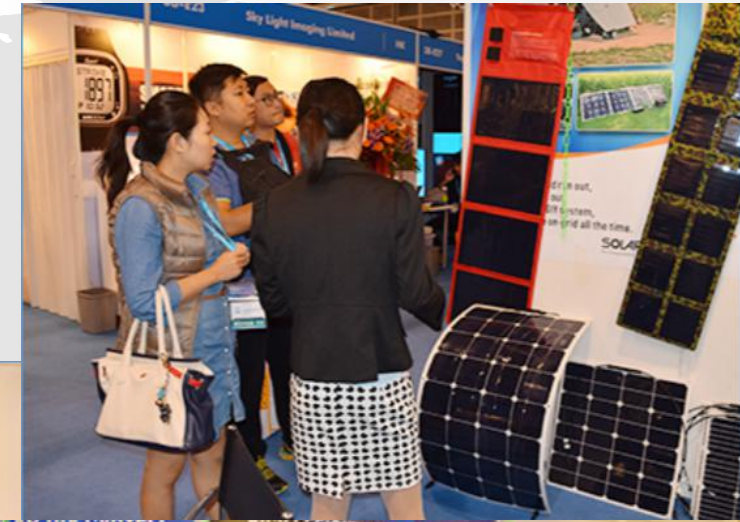
Germany



Britain



Netherlands



Spain



South Korea

America

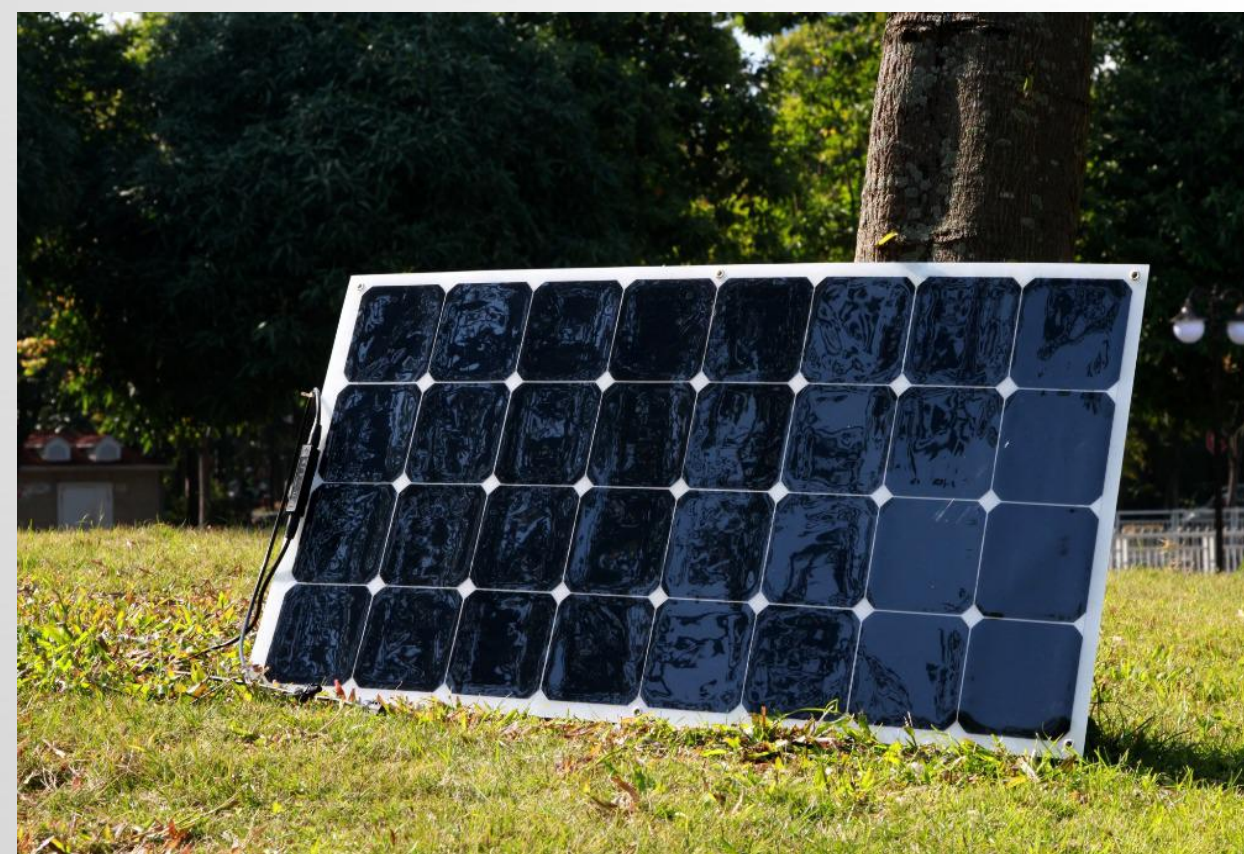
Australia

Japan



## 2. PRODUCT INTRODUCTION

- We have different product catalogs, such as solar panels, DIY systems, accessories. on the homepage at:
- <https://isolarparts.com/pages/download>





# MAIN PRODUCT RANGES

Flexible solar panel



Portable solar panel



Rigid Solar Panel



The company takes products of zero defects as the highest quality goal, is equipped with the latest testing equipment and professional quality engineers, and strictly inspects the purchase, production process and finished products.

High precision testing and inspection for solar cells and modules are extremely strict.





Ultra-light, PET or ETFE surface,  
SunPower solar cells

High-temperature resistant,  
corrosion-resistant and water  
resistant

Available to be bent 30 degree and  
suitable for installing on irregular  
surface

### ■ Features

\*Its conversion efficiency is as high as 22.0% -23.5%.

\*Weak light tolerance to work well under the weak light

\*Suitable for marine boats, camper vans, tents and other slightly curved surface.



Ultra-lightweight and foldable solar charger with a comfortable plastic handle.

High transmittance, PET frosting surface, and waterproof

Compression resistance, anti-impact and durable

### Typical Applications

\*It is designed for portable charging.

\*It's ideal for camping, RV, outdoor use, rural medical and emergency situations.

\*Besides, it features 12V output and allows you to charge ordinary battery, lead acid battery or lithium battery.



Folds up like a suitcase for easy storage and transport

With adjustable aluminum stands for better angle of light

Unique design, corrosion resistance, waterproof and weather resistance

### ■ Features

- \*Easy to set up and use
- \*Great resistance to wind pressure, snow load and so on
- \*Perfect for camping, RV, yacht and so on.



Adopts monocrystalline/polycrystalline solar cells, has higher conversion efficiency

Better resistant to extreme weather, water resistance

10 years warranty, good customer service, great for RV, roof, off-grid use etc.

### ■ Typical Applications

The Monocrystalline and Polycrystalline of solar panel have high efficiency and longer service life, providing electricity for charging 12V batteries, and bringing convenience for your life.



# CONTROLLER, CABLES AND ACCESSORIES

- 1, Batteries, Controller, cable, MC4 connectors and other accessories can be matched per customer's requirements, the followings just some of the typical ones for reference. More details need to provide the specs.



**Metal Clip**  
\*Strong clamping  
\*Not easy to fall off



**Metal Wire**  
\*Safety  
\*Durable







Solar Car



Solar Home



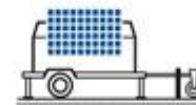
Solar Backpack



Solar Boat



Solar Street Light



Solar Power Generator









High transparent tempered glass





# THANKS AND CONTACT US

Contact us:

Company: Shenzhen Solarparts Inc.

Shenzhen Puguang Solar Energy Co.,Ltd.

Address: 4th Flor,Building A3,Xinglian Industrial Park, Pingxing North Road,  
PinghuTown,Longgang District, Shenzhen 518112 China.

Phone: +86-755-28720791 Fax: +86-755 85233441 Mobile: +86-13923729619

Website: [www.isolarparts.com](http://www.isolarparts.com) Email: [Philip@isolarparts.com](mailto:Philip@isolarparts.com)



QR Code for Official Website  
[www.isolarparts.com](http://www.isolarparts.com)



QR Code for On-line Shopping Sotore  
[www.xinpuguangsolar.com](http://www.xinpuguangsolar.com)