




**Make it Happen.**



Who is  
Talesun



# Global Leader in Solar Industry

[www.talesun.com](http://www.talesun.com)



## **founded in 2010**

Closely affiliated with Zhongli Group (SZ:002309) with 29 years history

## **18 affiliates**

Business covers cell, module, project development, EPC and turnkey solutions

## **2,500 million USD assets**

Abundant capital and reliable financial condition

## **more than 5,000 employees globally**

Our employees come from Europe, Americas, Asia, etc.



# Management Team

[www.talesun.com](http://www.talesun.com)



**Baixing Wang**  
Chairman & President  
Founder of Zhongli Group



**William Sheng**  
SVP, Marketing and Sales

**Yan Xu**  
Executive VP

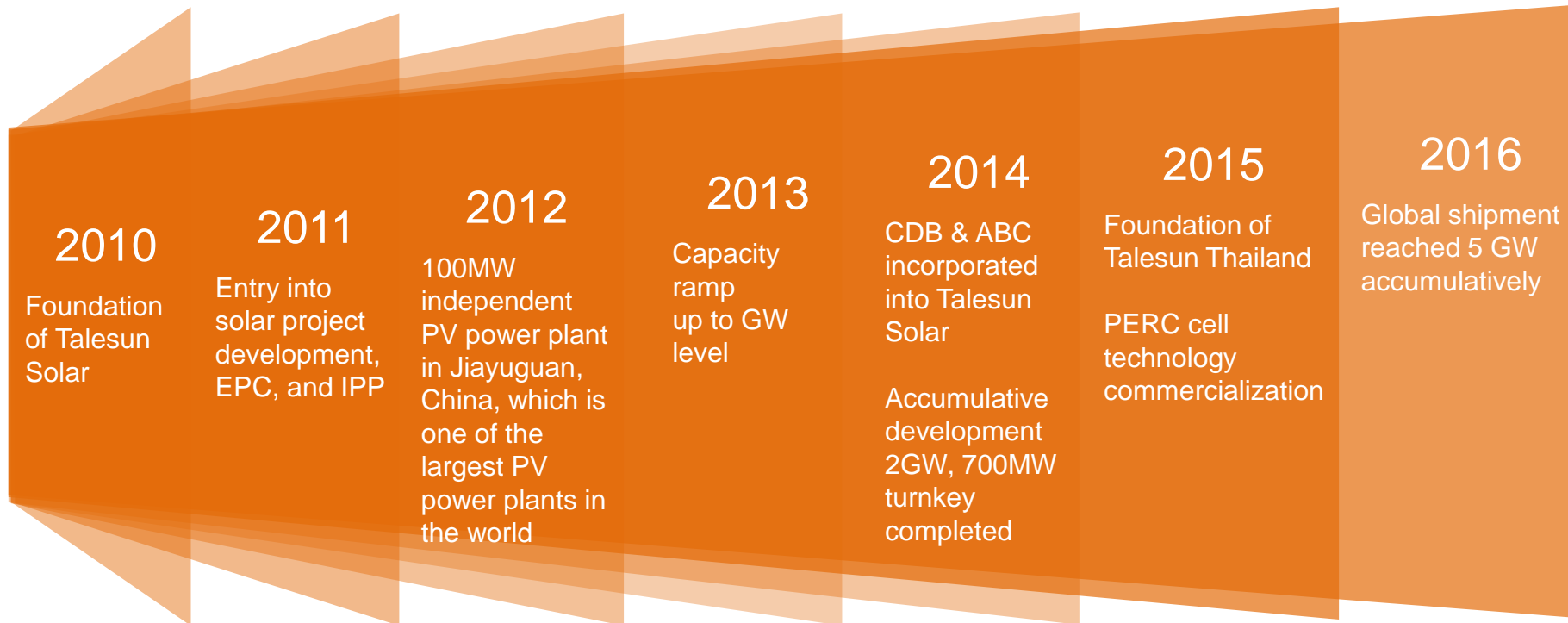


**Paul Ni**  
VP of Technology R&D



# Talesun Solar Milestones

[www.talesun.com](http://www.talesun.com)

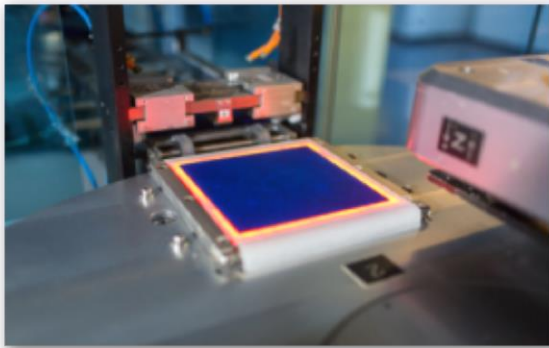
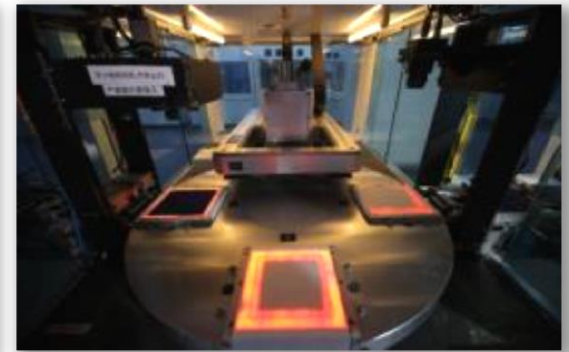


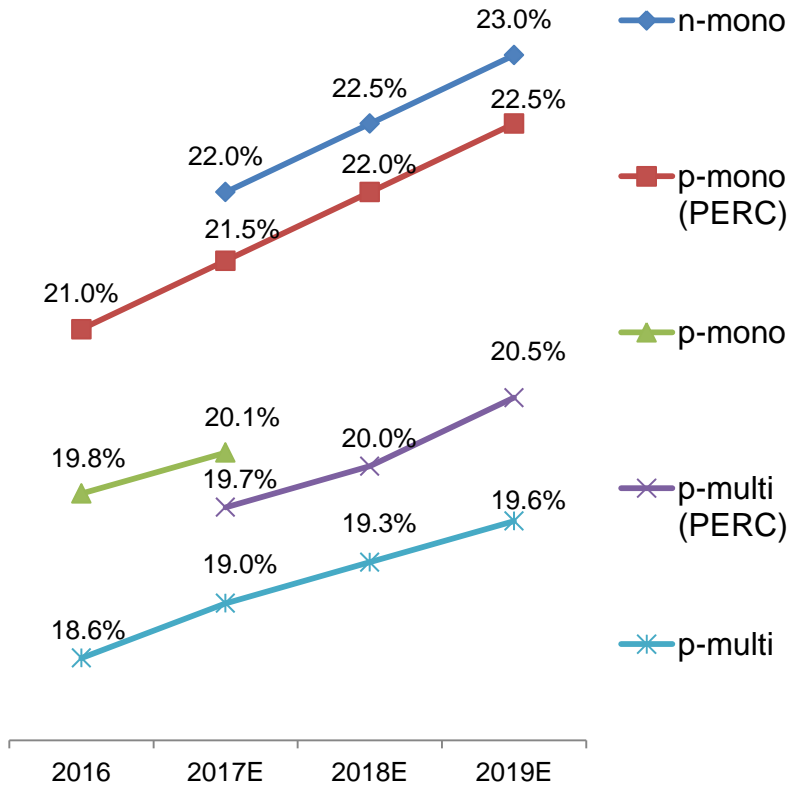


# Our Equipment

www.talesun.com

Talesun Solar Technologies is Vertically integrated from Cells to Modules. All Machine comes from Leading Equipment Manufacturers.





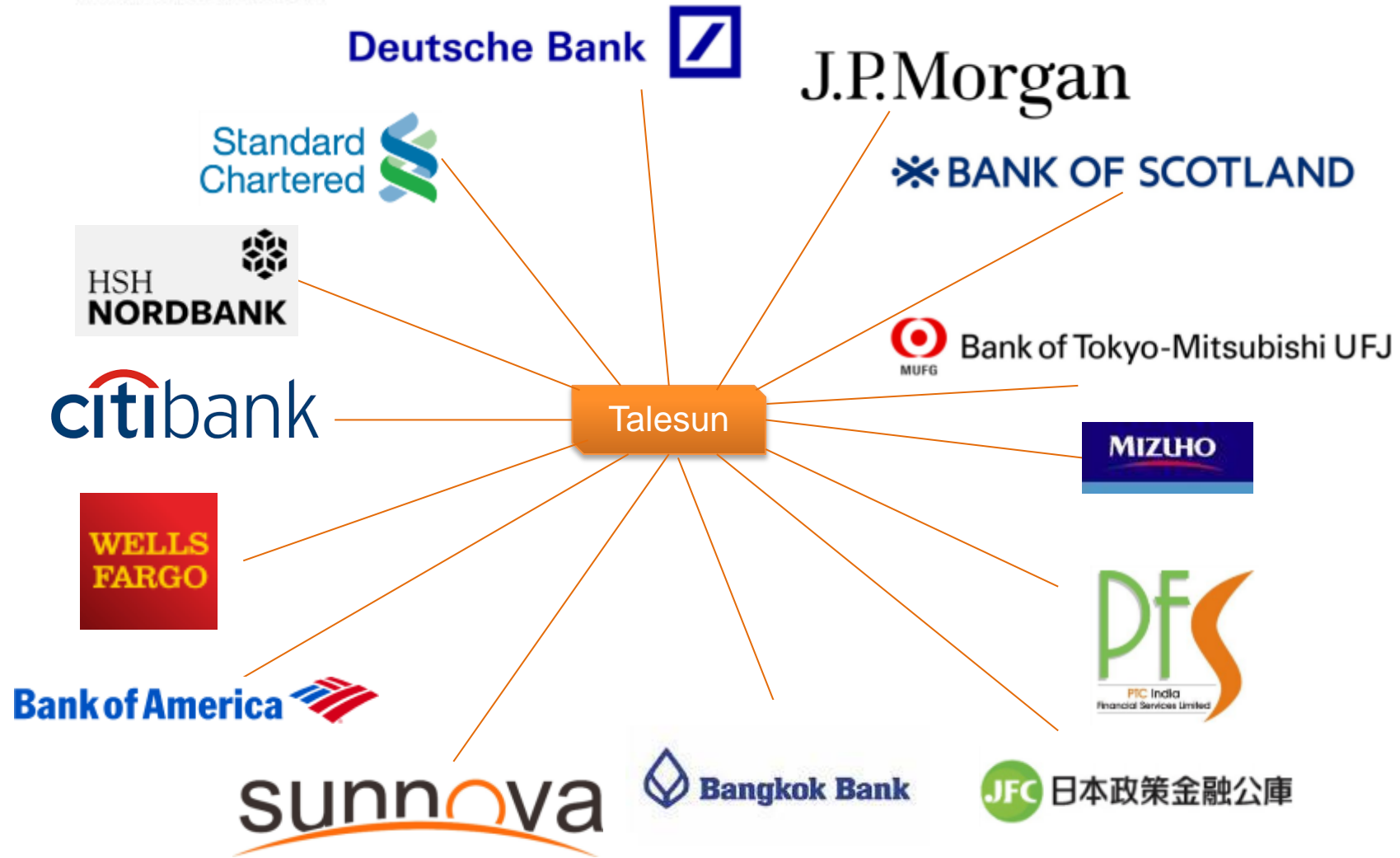
Talesun Solar R&D talents continuously improve the cell efficiency through different cell technologies. **21.0%** cell efficiency with **PERC** cell technology in mass production achieved.





# Strong Bankability

www.talesun.com



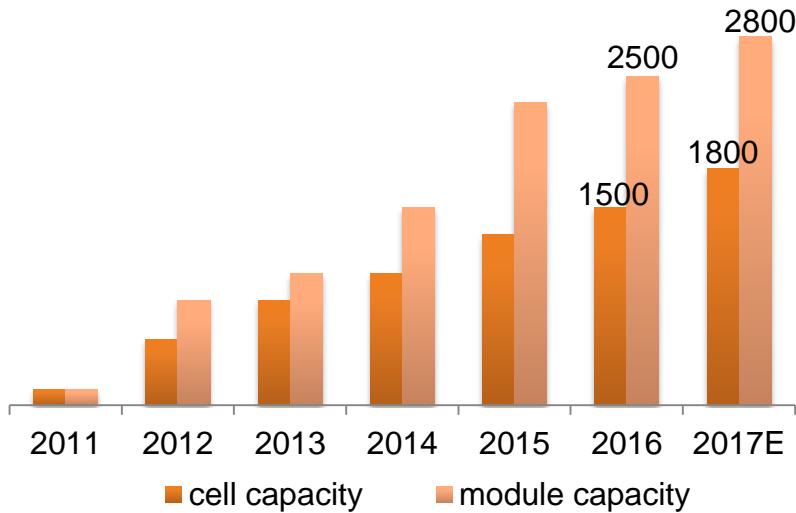
Our financial partners are all around the world



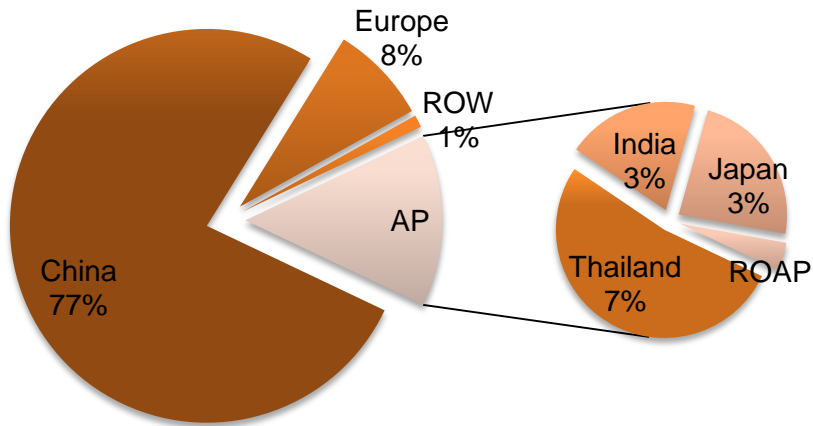
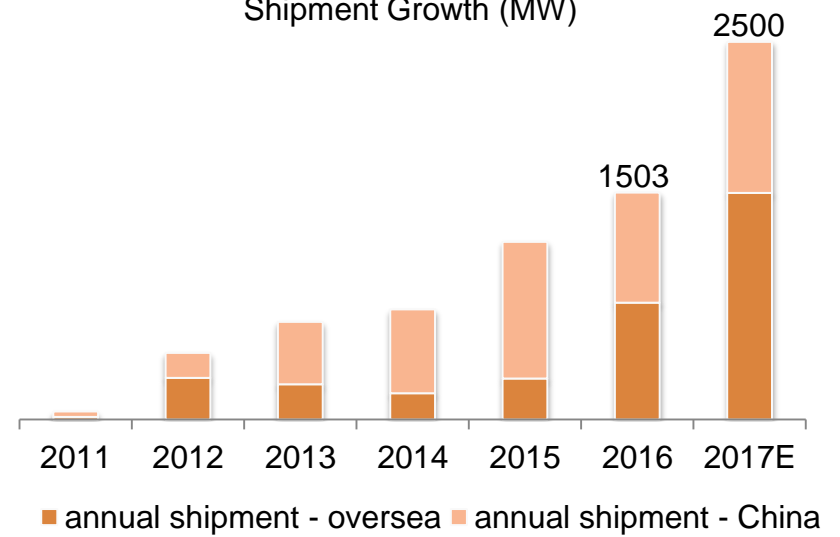
# Healthy Operational and Financial Condition

www.talesun.com

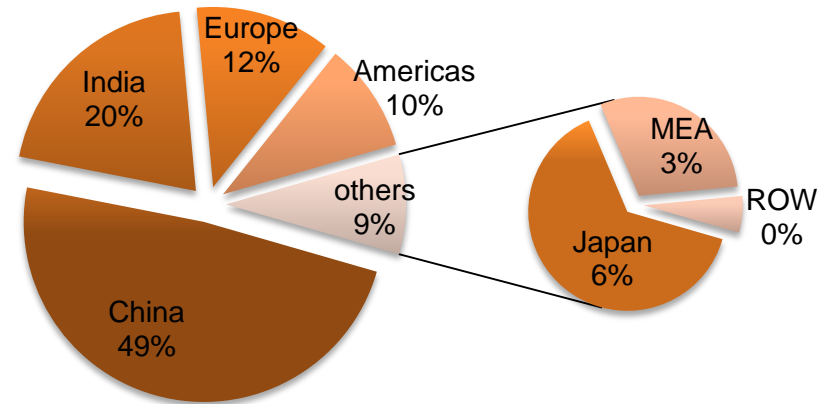
Production Capacity Growth (MW)



Shipment Growth (MW)



2015 Global Shipment by Geography



2016 Global Shipment by Geography



# Leading Solar Company

[www.talesun.com](http://www.talesun.com)

cumulative project  
development capacity

5 GW

Bloomberg  
Tier 1

PV manufacturer

cell efficiency

21.0 %

130 %

compound average  
growth rate (shipment)

performance warranty

up to  
30 years

28

countries and regions  
with market share



# Global Network

www.talesun.com



- Talesun Solar – HQ
- Production Base
- Warehouse
- Global Offices



Make it yellow or purple



# Overseas Supply Chain

www.talesun.com

## Thailand Factory



## Warehouses

Thailand



India



Europe



USA





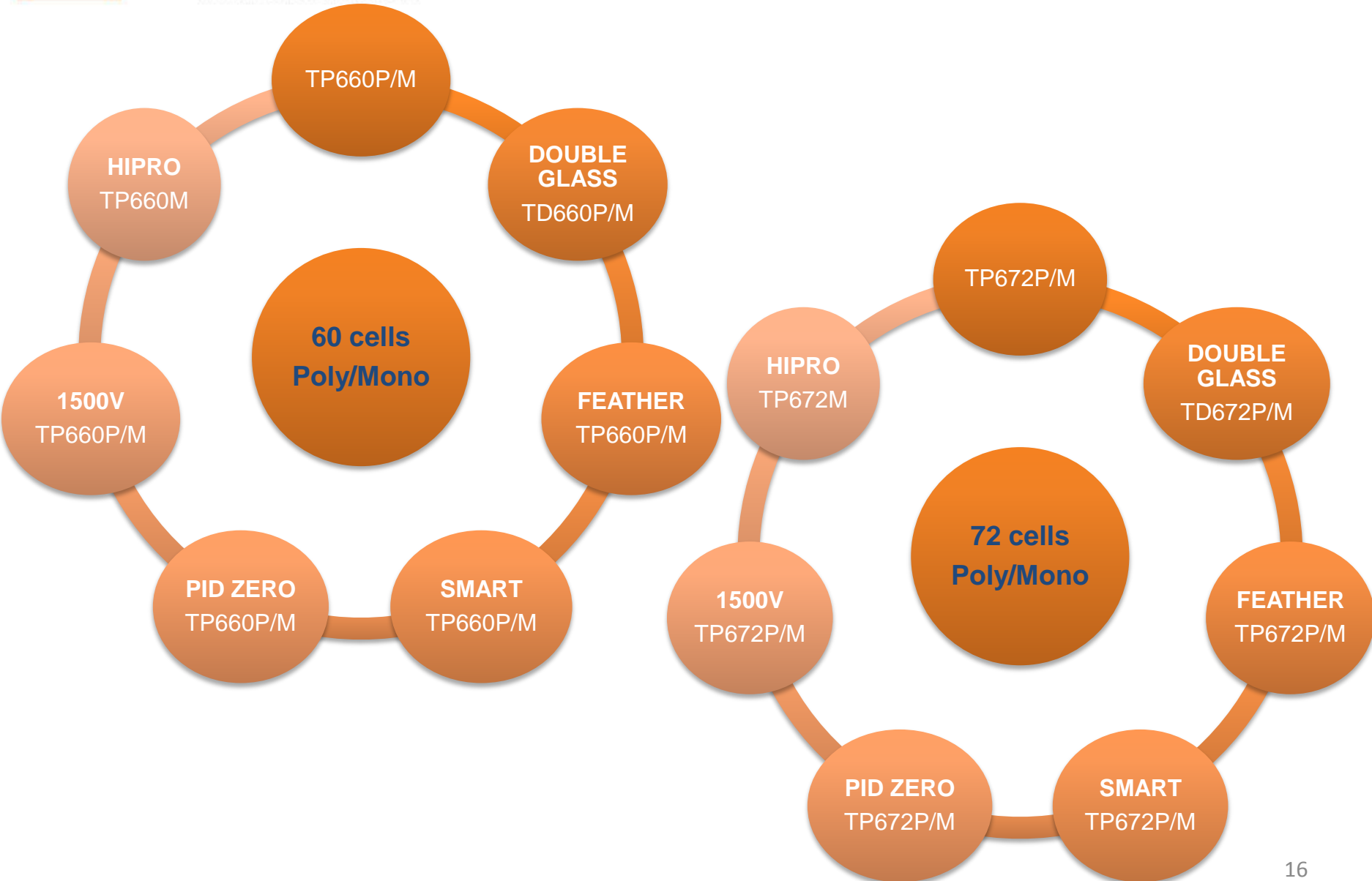


# Talesun Products



# Product Portfolio

[www.talesun.com](http://www.talesun.com)



## Mono-Crystalline Solar Module

Type	TP660M	TP672M
Cell Dimensions	156*156mm	156*156mm
Cell Arrangement	60 (6*10)	72 (6*12)
Module Dimensions	1640*990*35mm	1960*990*40mm
Power Tolerance	0-+3%	

## Poly-Crystalline Solar Module

Type	TP660P	TP672P
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Cell Arrangement	60 (6*10)	72 (6*12)
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## Light Module Series

### FEATHER 2.0

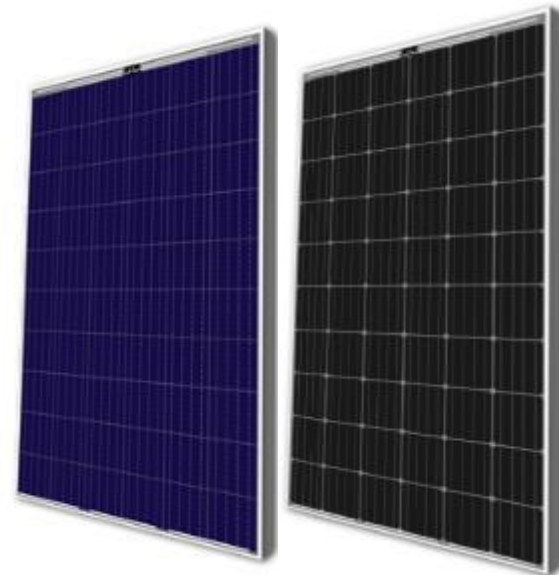
Adopt 2.0mm ultrathin tempered glass, with light frame, 14kg  
**26% lighter** (60 cell series based) , but yet still certified to withstand 2400Pa wind load and 5400Pa snow load.



## Double-glass Series

### TWINKLE 2.0

TWINKLE 2.0 uses two 2.0mm tempered glasses with solar cells laminated in, and adopts high performance encapsulant, which ensures stable power output under extreme climate conditions.



## PID ZERO Series

**PID ZERO** module is expected to eliminate system power degradation in high humidity and salty mist shower environment such as coastal areas.

The PID test of Talesun PID ZERO module by TUV Rhn shows that the power degradation is no more than **1%** under the test condition of **85°C, 85%RH, -1000V** for **672** hours.

PI <sup>CHINA</sup> TALESUN MODULE TEST REPORT	
Talesun Module Test Condition (by PI China)	Standard Module Test Condition
85°C, 85% RH, -1000V test for <b>672</b> hours	85°C, 85% RH, -1000V test for <b>96</b> hours
Talesun module test result	standard test result requirement
power degradation $\leq$ <b>1%</b>	power degradation $\leq$ <b>5%</b>
PI Photovoltaic Institute (Suzhou) Co., Ltd.	
PI Production Institute (Suzhou) PI Module & System Technology Testing/Certification Building A, 2 Huai Road, Suzhou Industrial Park Suzhou, Jiangsu Province P.R.C. Phone: +86 512 69900988 Fax: +86 512 69900122 Web: www.pri-ct.com	
PHOTOVOLTAIC-INSTITUTE <sup>CHINA</sup>	

## SMART MODULE Series

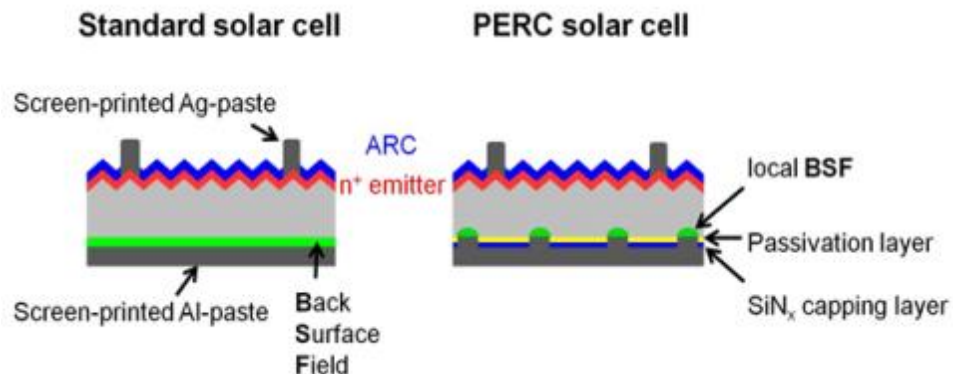
Integrated with module optimizer:

- Real time cloud monitoring
- Up to 20% more power output
- More flexible system design
- Work with any inverter



Hipro M295+

Hipro M350+

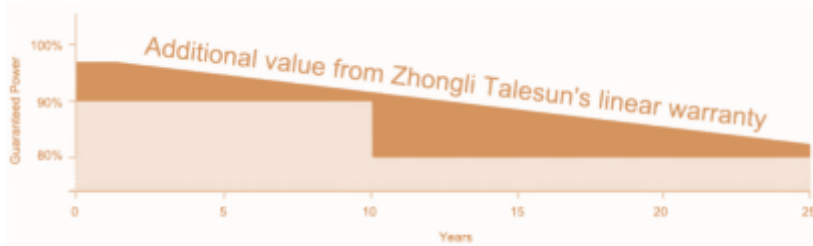


- ◆ Mono PERC enhances back side passivation and increases cell efficiency to above 21%
- ◆ Low Light Induced Degradation (LID), and Potential Induced Degradation (PID) resistant
- ◆ Premium product: 60-cell module power to reach 295Wp; 72-cell module power to reach 350Wp.

## Industry Leading Product Warranty

- ✓ 10-year product workmanship warranty
- ✓ 25-year linear power output performance guarantee
- ✓ Guarantee first year power degradation is no more than 2.5% from its nameplate power <sup>①</sup>
- ✓ From year 2 to year 25, the actual annual power decline will be no more than 0.7% <sup>①</sup>
- ✓ By the end of year 25, the actual power output will be no less than 80.7% of the nameplate power output <sup>①</sup>

<sup>①</sup> To poly-silicon modules






## Backed by Investment Grade Insurance Policy




- ✓ Insurance policy matches Talesun Solar's standard warranty terms
- ✓ Coverage starts immediately and lasts for 25 years
- ✓ Covers worldwide modules sales to any countries
- ✓ The policy is non-cancelable and allows third party bankruptcy rights (satisfying investor/banker requirements)



## International Environmental & Quality Management Standards

-  ISO 9001:2008 Quality Management System
-  ISO 14001 Environment Management System
-  OHSAS 18001 Occupational Health and Safety

## International Testing Standards

-  IEC 61215 & IEC 61730, UL 1703 & UL 790 & CEC
-  CE conformity, MCS (EN45011)
-  REACH Compliance



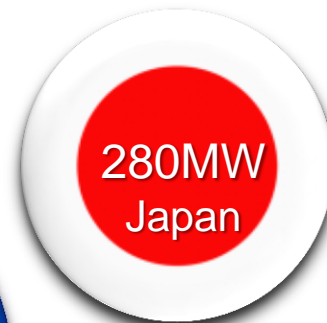
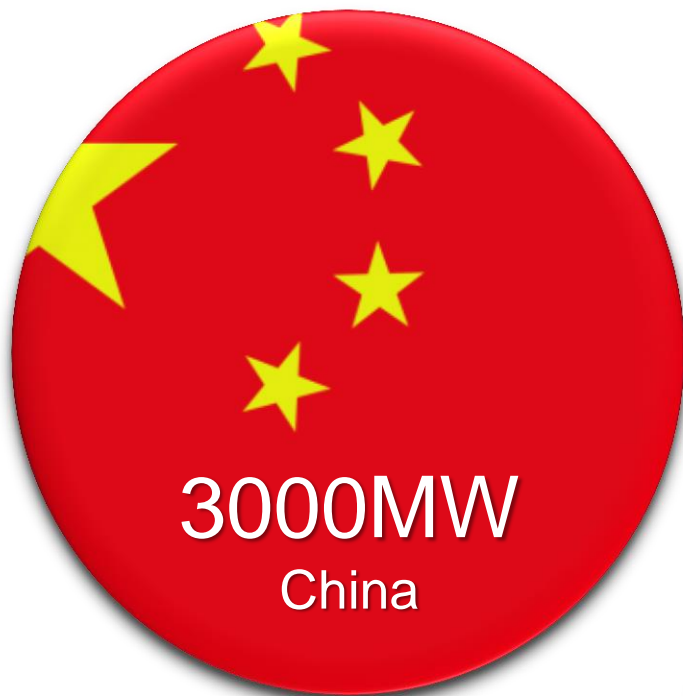


# Talesun Achievements



# Projects by Geography

[www.talesun.com](http://www.talesun.com)





## Reference Projects - Asia

[www.talesun.com](http://www.talesun.com)



100MW – Jiayuguan, Gansu, China



30MW – Baotou, Inner Mongolia, China



# Reference Projects - Asia

[www.talesun.com](http://www.talesun.com)



100MW – Jinchang, Gansu, China



40MW – Hami, Xinjiang, China



**Talesun Solar** innovatively invented project deeply integrated with Smart PV + Mega-Agriculture. Fishing, farming and livestock are integrated with PV harmoniously.



# Reference Projects - Asia

[www.talesun.com](http://www.talesun.com)

9.5MW – Haryana, India



10MW – Haryana, India





# Reference Projects - Asia

[www.talesun.com](http://www.talesun.com)



15MW – Cha-Am, Thailand



# Reference Projects - Asia

[www.talesun.com](http://www.talesun.com)

1.75MW – Bangkok, Thailand





# Reference Projects - Asia

[www.talesun.com](http://www.talesun.com)



3.5MW – Yamaga, Japan



## Reference Projects - Asia

[www.talesun.com](http://www.talesun.com)



253.2kW – Ibi-gun, Japan



274.2kW – Gifu, Japan



# Reference Projects – Europe & Americas

[www.talesun.com](http://www.talesun.com)



20MW – Berlin, Germany



13MW – Lincolnshire, UK



# Reference Projects - Europe & Americas

[www.talesun.com](http://www.talesun.com)



21MW – Gaultney, UK



14MW – Egmonton, UK



# Reference Projects - Europe & Americas

[www.talesun.com](http://www.talesun.com)



2.2MW – Nordhorn, Germany



# Reference Projects - Europe & Americas

[www.talesun.com](http://www.talesun.com)

829kW – Groningen, Netherlands



327kW – Nieuwe Tonge, Netherlands





# Reference Projects - Europe & Americas

[www.talesun.com](http://www.talesun.com)



750kW – Napa Valley, CA, USA



# Social Responsibility

**Corporate social responsibility is seen as a perpetual motion machine for Talesun Solar's own development.**

For a long period, we focus on training our staff on social responsibility, encouraging our employees to participate in public welfare undertakings, and to actively participate in social welfare contributions.

## **Involved in donation and public welfare activities**

From “thanks giving to the staff” extend to “thanks giving to the community”, our company actively involved in various kinds of donation and public welfare activities so that to keep making continuous returns to the community.



*Donation of 20kW Solar Modules to Buddhist Temples in Thailand - 2016*

Year	Support Actions Implemented
2013	Make a donation to <b>Ya'an city</b> , an earthquake disaster area, with multiple sets of small photovoltaic systems, which is at a total value of <b>5.5 million RMB</b> .
	Employees donations <b>22,800.00 RMB</b> .
	Planting trees <b>200 acres</b>
	Solving jobs for the <b>33</b> difficulties of old and unemployed people
2014	Paying <b>250,000 RMB</b> for company employee medical examination
	Employees donations
	Planting trees <b>220 acres</b>
	Solving jobs for the <b>29</b> difficulties of old and unemployed people



Key Support Fields	Reason	Support Actions Implemented	Expense(RM B)
Industry Development	Industry Communication and Information Updating	China PV Industry Association China Renewable Energy Industry Association	400,000
Environment Protection	Beautiful Vision of “Better World with Better Environment”	PV professional website and other promotional PSAs Platform	300,000
Poverty Alleviation	Assistance people in distress	The company donates first sum and appropriately leads internal fundraising.	300,000
Helping Students of Poor-family	Docking colleges, which is favorable for bringing professional talent	Focus on students from poor mountain areas	400,000
Voluntary Blood Donation	Helping Others	To act in the appropriate time	100,000
Other Non-mentioned Fields	Society Care	To act positively when the appropriate time	500,000
<b>In Total</b>			<b>2,000,000</b>





**Thank You !**

Leverage the solar energy technology for greener, sustainable and better future!