



TALESUN

TALESUN

MAKE IT HAPPEN



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Zhongli Group **Overview**



Zhongli Group was founded in 1988 and
received several recognition Awards such as:

- ✓ China's top 10 independent innovation Enterprise
- ✓ China's top 100 most potential competition of private enterprise brand
- ✓ National Quality Service Credit AAA unit

**Zhongli Group has successfully been listed on
Shenzhen Stock market in 2009 (SZ:002309).**

KEY INFORMATION

Zhongli Group

4216 million USD assets

abundant capital and reliable financial condition.

9,800 employees globally

diversified employees from all over the world

18 first-level subsidiary

Business sectors covers:

Electric cable & new material

Optical communication

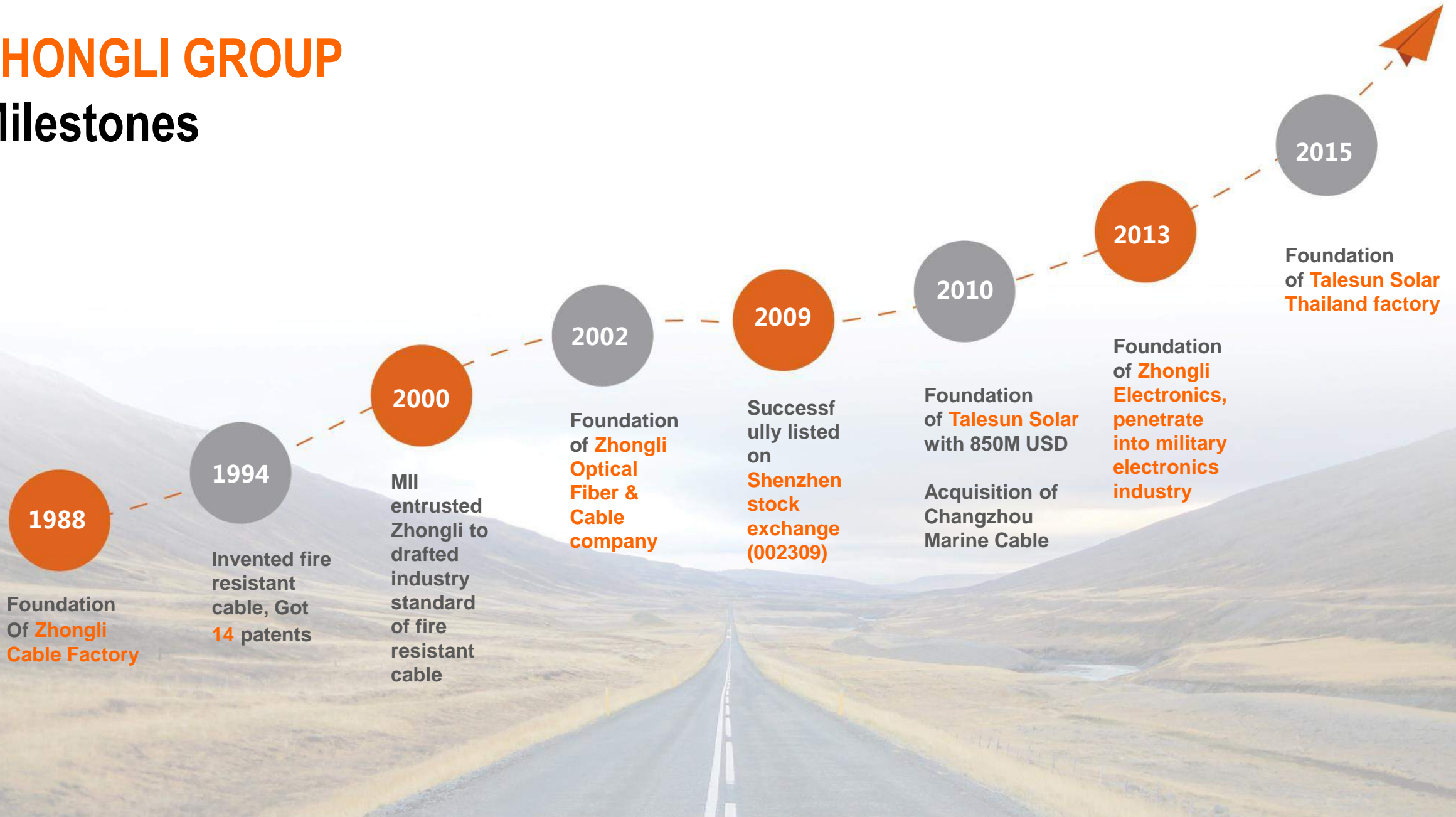
Photovoltaic products & solutions

High-end electronics products

9 national high-tech enterprises

ZHONGLI GROUP

Milestones





Talesun Solar **Introduction**



KEY INFORMATION

Talesun Solar

Established in **2010** with a total investment of **5B** (850M USD registered capital.

With annual capacity of **4GW** cells and **5GW** modules (BNEF 2017 Q4);

Fully automated production line from Italy, Germany, Japan;

The only Chinese company received **VDE Quality-tested certificate**;

Received ‘ **2015 china photovoltaic top runner award**’ ;

Leading role to launch “ Diversified eco-agricultural PV” project from 2016 in china;

2.5 Billion USD assets

6,000 employees globally

oversea manufacture plants and global local sales office.

18 affiliates

Market Segments covered:

- ✓ Cells
- ✓ Modules
- ✓ Project Development
- ✓ EPC

International Presence:

- ✓ South East Asia
- ✓ Europe
- ✓ Americas
- ✓ Australia
- ✓ Middle East & Africa

Talesun Solar Milestones



COMPANY LOCATION & VIEW

China **Factory**

Changshu HQ

Cell capacity **3.2GW**

Module capacity **4.2GW**

Suzhou Talesun Technologies Co., Ltd

Add: No.1 Talesun Road, Shajiabang, Changshu, Suzhou, Jiangsu,
P.R. China 215542

Website: www.talesun.com



COMPANY LOCATION & VIEW

Thailand **Factory**

Rayong Industrial Zone

Cell capacity **800MW**

Module capacity **800MW**

Talesun Technologies (Thailand) Co. Ltd.

Add: 7/473 Moo.6 Mabyangporn, Pluakdaeng, Rayong, Thailand 21140



WAREHOUSE LOCATION & VIEW

Warehouses



Thailand

Factory Warehouse
near to Bangkok

Max. 20MW/Month



India

Warehouse near to
Mumbai

Max. 10mw/Month



Europe

Warehouse near to
Rotterdam Port

Max. 20MW/ Month



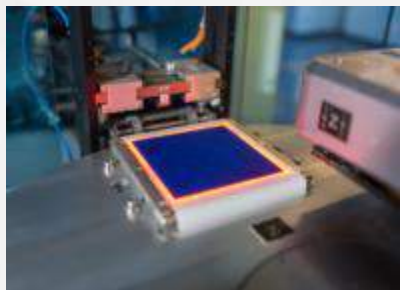
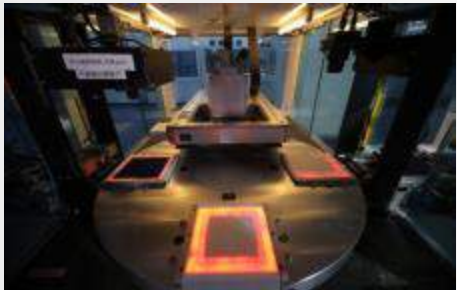
USA

Warehouses in 3 locations

West: NorCa, SoCa,
East: New Jersey, Norfolk

Max. 60MW/Month

Best Equipments



All Machine comes from Leading Equipment Manufacturers.



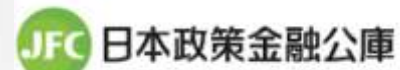
Global Locations



Strong Bankability

Our financial partners are all over the world

J.P.Morgan



Bank of Tokyo-Mitsubishi UFJ

Deutsche Bank



HSH
NORDBANK



✧ BANK OF SCOTLAND

Bank of America



citibank



sunnova

Credit Rate – dun & bradstreet

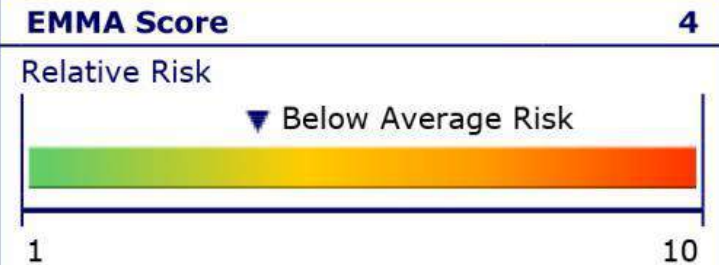


Suzhou Talesun Solar Technologies Co., Ltd

D-U-N-S: 56-100-9004

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Risk Assessment



D&B Rating	5A2
Financial Strength	5A (Tangible Net worth > 450,000,000)
Composite Appraisal	2 Good

Customers



STERLING & WILSON



S-POWER
SUSTAINABLE POWER GROUP

sunnova



Sol
Distribution



Nice

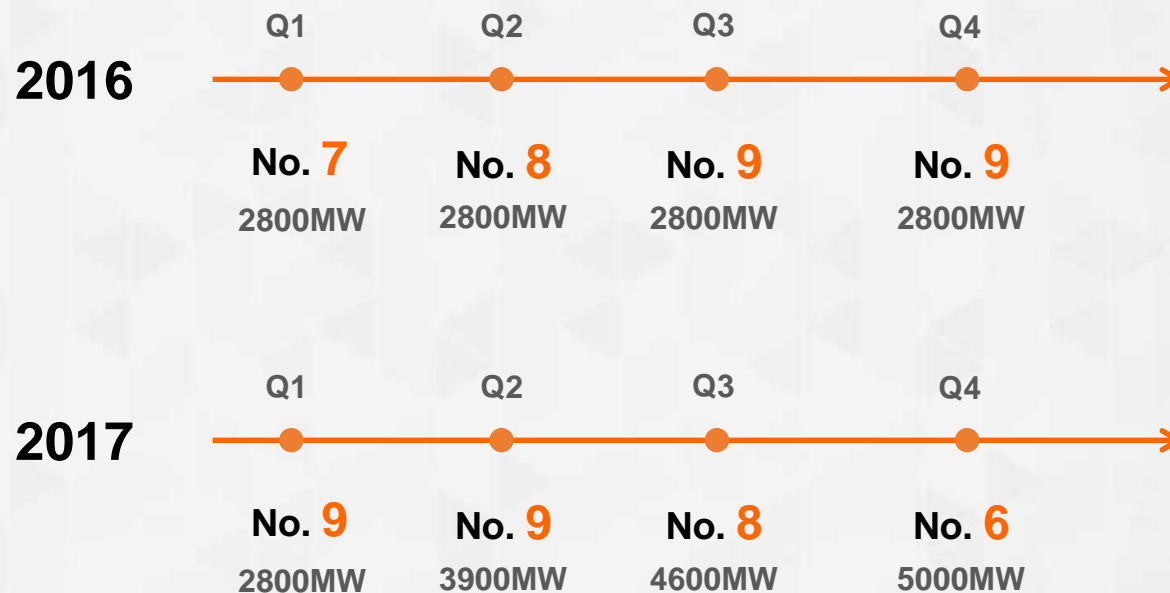


Third Party Ranking

Table 1: Tier 1 PV module manufacturer list,

Company	Capacity
Trina Solar*	8,000
Jinko Solar*	7,500
JA Solar*	7,000
Canadian Solar*	6,970
Hanwha Q Cells*	6,400
GCL Systems*	5,000
Longi	5,000
Talesun	5,000
Suntech/ Shunfeng*	3,300
Seraphim*	3,000
First Solar*	2,200
Hareon	2,000
Renesola	2,000
LG*	1,650
ZNShine	1,600

Bloomberg New Energy Finance Tier 1 Module Maker List

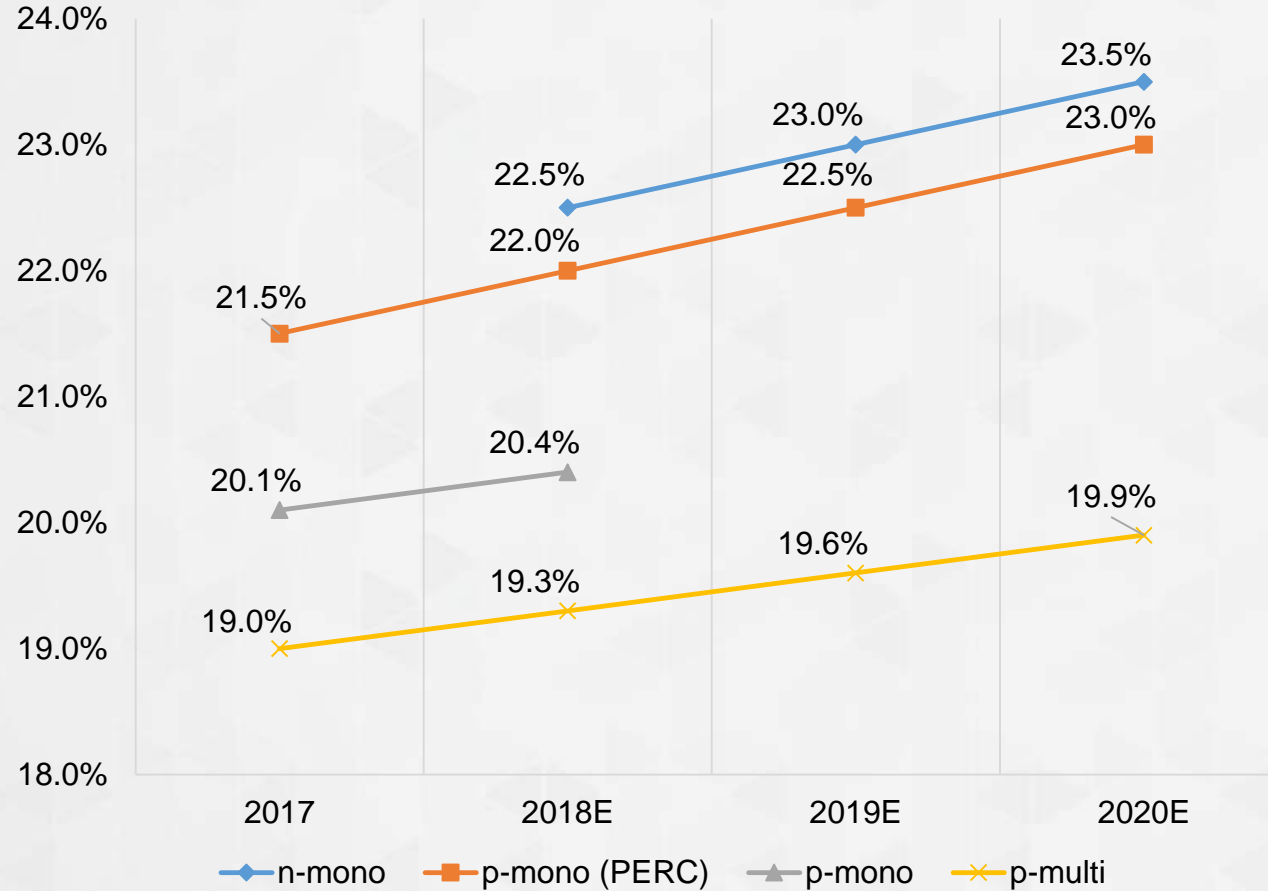


Talesun is now No. 6



Main Products

Industry Leading Cell Technology and Efficiency



Talesun Solar R&D talents continuously improve the cell efficiency through different cell technologies. 22.3% cell efficiency with PERC cell technology in mass production achieved.

New Products Series



BiSTAR Series
Half-cut Cell



MIPRO Series
Multi Bus-bar Cell



HIMAX Series
Shingled Cell



NIPRO Series
Bifacial Cell

Innovative Module for Diversified Customers' Needs

MBB Module

MIPRO TP672P

Polycrystalline Solar Module
72 Cell Series with Multi Bus-bar Cell Technology



KEY FEATURES

340W

Highest power output

12 Bus-bar

Cell Technology

Anti PID

Certified by TUV Rheinland

25 years

Linear power output warranty

10 years

Material & workmanship warranty

Enhanced Module Efficiency up to 17.5%

- 12 Bus-Bar grid pattern technology: reduce 3% of shading area of cell
- Lower Rs, higher power output
- Concentration effect of round photovoltaic solder strip

High Reliability and Enhance Power Output of System

- Enhanced anti micro-cracking performance with balanced interior stress
- Significantly lower the risk of hot spot by lowering module temperature in shading
- Higher power output with lower LCOE

Aesthetic Appearance

- Beautiful appearance, ideal for applications that require architectural aesthetics

Robust Design

- Strong anodized aluminium alloy frame, certified to withstand up

Complete System and Product Certificates

- IEC 61215, IEC 61730, UL 1703
- ISO 9001: 2008: ISO Quality Management System
- ISO 14001: 2004: ISO Environment Mangement System
- OHSAS 18001: 2007: Occupational Health and Safety Management System

BiSTAR Module

BiSTAR TP6H72P

Polycrystalline Solar Module
72 Cell Series with Half-cut Cell Technology



KEY FEATURES

340W

Highest power output

Half-cut

Cell Technology

PID Free

Certified by TUV Rheinland

10 years

Material & workmanship warranty

25 years

Linear power output warranty

Enhanced Module Efficiency up to 17.1%

- Innovative half-cut cell technology, excellent module circuit design
- Lower internal current, excellent anti hot spot performance
- More internal reflection, better utilization of sunlight, more power output

High Reliability and Enhance Power Output of System

- High reliability, low NOCT & low temperature coefficient
- Excellent performance under shading, less power output loss with new circuit design

Complete System and Product Certificates

- IEC 61215, IEC 61730, UL 1703
- ISO 9001: 2008: ISO Quality Management System
- ISO 14001: 2004: ISO Environment Mangement System
- OHSAS 18001: 2007: Occupational Health and Safety Management System

Robust Design

- Strong anodized aluminium alloy frame, certified to withstand up to 2400 Pa wind load and up to 5400 Pa snow load

Innovative Module for Diversified Customers' Needs

FEATHER 2.0 Series

Lightweight modules

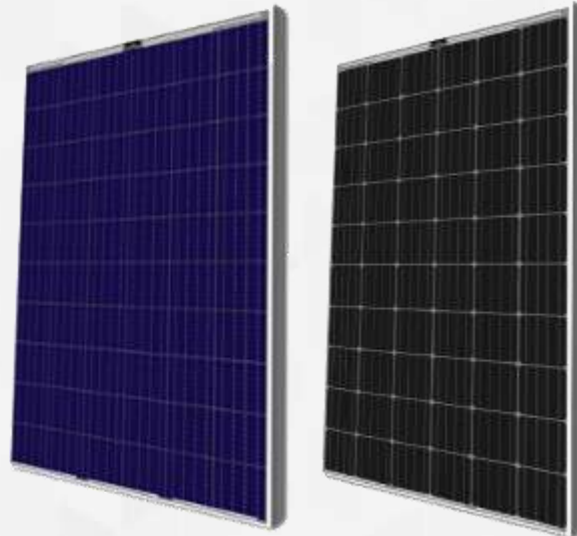
Adopt 2.0mm ultrathin tempered glass, with light frame, 14kg, 26% lighter (60 cell series based) , but yet still certified to withstand 2400Pa wind load and 5400Pa snow load.



TWINKLE 2.0 Series

Glass-Glass module

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.



SMART MODULE Series

Integrated with module optimizer

- 100% cloud monitoring
- Up to 20% more power output
- More flexible system design
- Work with any inverter

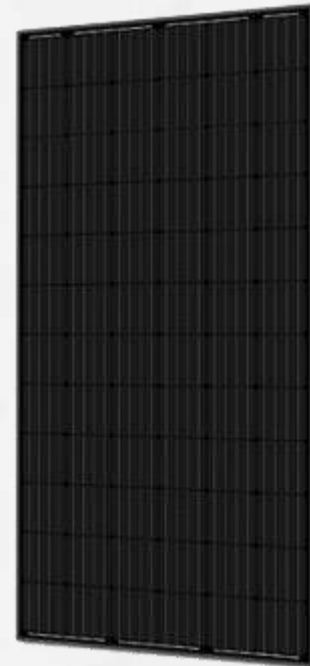
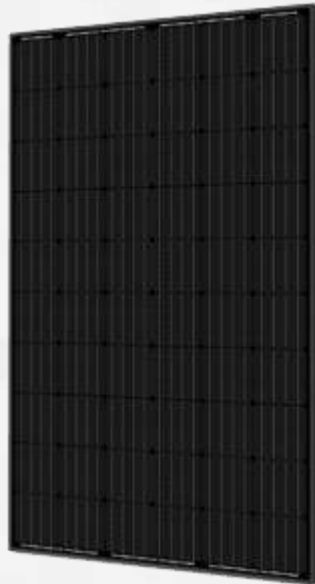


Conventional Mono/ Poly module series

Mono-Crystalline Solar Module				Poly-Crystalline Solar Module		
Type	TP660M-300W	TP672M-360W		Type	TP660P-275W	TP672P-325W
Cell Dimensions	156*156mm (4BB)	156*156mm (4BB)		Cell Dimensions	156*156mm (4BB)	156*156mm (4BB)
Cell Arrangement	60 (6*10)	72 (6*12)		Cell Arrangement	60 (6*10)	72 (6*12)
Module Dimensions	1650*992*35mm	1960*992*40mm		Module Dimensions	1650*992*35mm	1960*992*40mm
Power Tolerance	0~+3%			Power Tolerance	0~+3%	



All Talesun
Modules :
Anti PID



Product Warranty Backed by multi-reinsurances

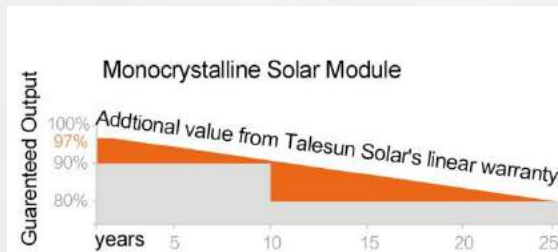
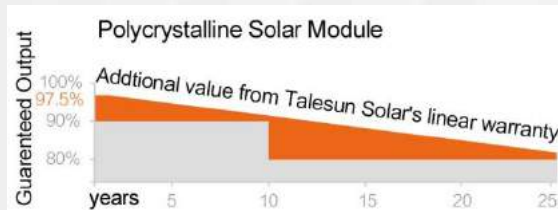
Product Warranty

10 years

Material & Workmanship Warranty

25 years

Linear Power Warranty



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)



Quality and Performance Certification

Certificates



International Testing Standards

IEC 61215 & IEC 61730, UL 1703 & UL 790 & CEC

CE conformity, MCS (EN45011)

REACH Compliance

International Environmental & Quality Management Standards

ISO 9001:2008 Quality Management System

ISO 14001:2004 Environment Management System

OHSAS 18001:2007 Occupational Health and Safety Management System



Achievements

Domestic Shipment – 4000MW

Largest PV Project in the World in 2012 – 100MW

Jiayuguan, Gansu, China



Changshu, Jiangsu, China



Oversea Shipment – 2000MW

Berlin, Germany



Lincolnshire, UK



Calabria, Italy



Yamaga, Japan



Oversea Shipment – 2000MW

Aydın, Çine, Turkey



Cha-Am, Thailand



Haryana, India



One of the Top 3
Module Supplier in India!

Egmanton, UK



Oversea Shipment – 2000MW

7.2MW

Largest PV Project in Switzerland!



Onnens-Bonvillars, Switzerland



Nieuwe Tonge, Netherlands



Groningen, Netherlands



Nordhorn, Germany



Thank you