



TALESUN

TALESUN

MAKE IT HAPPEN



CONTENTS

1

Zhongli Group Overview

2

Talesun Solar Introduction

3

Products

4

Achievements

The title is centered within a white, parallelogram-shaped graphic that has a slight 3D effect with a drop shadow. The background of the entire slide is a solid orange color.

Zhongli Group

Overview



BACKGROUND

Zhongli Group

Zhongli Group founded in 1988, Awarded
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).

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 covers electric cable & new material ; optical communication;
Photovoltaic and high-end electronics.

9 national high-tech enterprises

ZHONGLI GROUP

Milestones

1988

Foundation
Of **Zhongli
Cable Factory**

1994

Invented fire
resistant cable,
Got **14** patents

2000

MII entrusted
Zhongli to drafted
industry standard
of fire resistant
cable

2002

Foundation
of **Zhongli
Optical Fiber &
Cable company**

2009

Successfully listed
on **Shenzhen
stock exchange
(002309)**

2010

Foundation
of **Talesun
Solar** with
850M USD

2010

Acquisition of
Changzhou
Marine Cable

2013

Foundation
of **Zhongli
Electronics**,
penetrate into
military electronics
industry

2015

Foundation
of **Talesun
Solar
Thailand
factory**





Talesun Solar
Introduction



BACKGROUND

Talesun Solar

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

With annual capacity of **3GW** 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;

2,500 M USD assets

6,000 employees globally

oversea manufacture plants and global local sales office.

18 affiliates

Businesses covering cell , module, project development, EPC and turnkey solutions;

Branches in SE Asia, Europe, Americas, Australia, Middle East and Africa;

Talesun Solar Milestones

2010

Foundation of **Talesun Solar**

2011

Access to **project Development & EPC**

2012

Completion of 100MW independent PV power plant in Jiayuguan, China. one of largest PV power plants in the world

2014

Accumulative project development reached **2GW**, includes **700MW turnkey** completed

2015

Establishment of **Talesun Solar Thailand**

2016

Global shipment reached 6 GW accumulatively

2017

Annual module capacity ramp up to **5GW (Top 5 globally)**



COMPANY LOCATION & VIEW

China **Factory**

Changshu HQ

Cell capacity **5000MW**

Module capacity **3000MW**

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 **600MW**

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



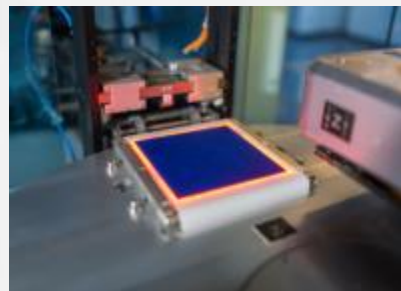
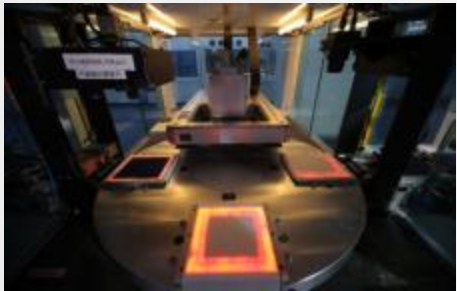
USA

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



Credit Rate

Risk Assessment

EMMA Score **4**

Relative Risk

▼ Below Average Risk

1

10

D&B Rating **5A2**

Financial Strength

5A (Tangible Net worth > 450,000,000)

Composite Appraisal

2 Good

Business Information Report

Suzhou Talesun Solar Technologies Co., Ltd
Report compiled Jun 23, 2017

IDENTIFICATION & SUMMARY

Identification	Risk Summary
Company Name Suzhou Talesun Solar Technologies Co., Ltd Official English Name Yes Chinese Name 苏州泰乐森太阳能科技股份有限公司 DUNS® Number 56-100-9004 Address No. 1 Tangjiu Rd., Changsun Industrial Park, Suzhou Postal Code 215440 Address (Chinese) 苏州工业园区唐九路1号 Telephone 0512 82355880 Facsimile 0512 82355880 E-mail sut.chen@talesun.com Type of Business A limited company Year Started 2009 History Clear (Complete Shareholder(s) and management information) Imports Yes Exports Yes Employees 3,256 (Total) 3,256 (Male) Principal Bailing WANG / Chairman US SIC Code 3621 9901 Primary Business Generating apparatus and parts, electrical	RISK EVALUATION EMMA Score 4 D&B Rating 5A2 D&B PAYDEX® 56 LEGAL EVENTS Litigation Records 0 PRINCIPAL INFORMATION Principals 1 PAYMENT INFORMATION Trade References 0 COMPANY KEY EVENTS History Changes 0 Media Records 0 FINANCIAL SUMMARY Registered Capital RMB 2,985,000 (2012) Sales/Turnover 5,104,624,000 (2016) Tangible Net Worth 3,829,191,000 (2016) Total Assets 18,267,865,000 (2016) Shareholders Equity 3,940,299,000 (2016) CURRENCY All monetary amounts quoted in this report are shown in RMB(Renminbi) unless otherwise stated. REMARKS * stands for "Insufficient information" or "No comments".

Risk Assessment

EMMA Score 4	D&B Rating 5A2
Relative Risk ▼ Below Average Risk	Financial Strength 5A (Tangible Net worth > 450,000,000)
PAYDEX of This Business 56	Composite Appraisal 2 Good

Customers



STERLING & WILSON



S-POWER
SUSTAINABLE POWER GROUP

sunnova



中国国电
CHINA GUODIAN



Sol
Distribution



NICE



Third Party Ranking

Bloomberg New Energy Finance Tier 1 Module Maker List

Table 1: Tier 1 PV module manufacturer list, by capacity

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

Q1 2016

Q2 2016

Q3 2016

Q1 2017

Q2 2017

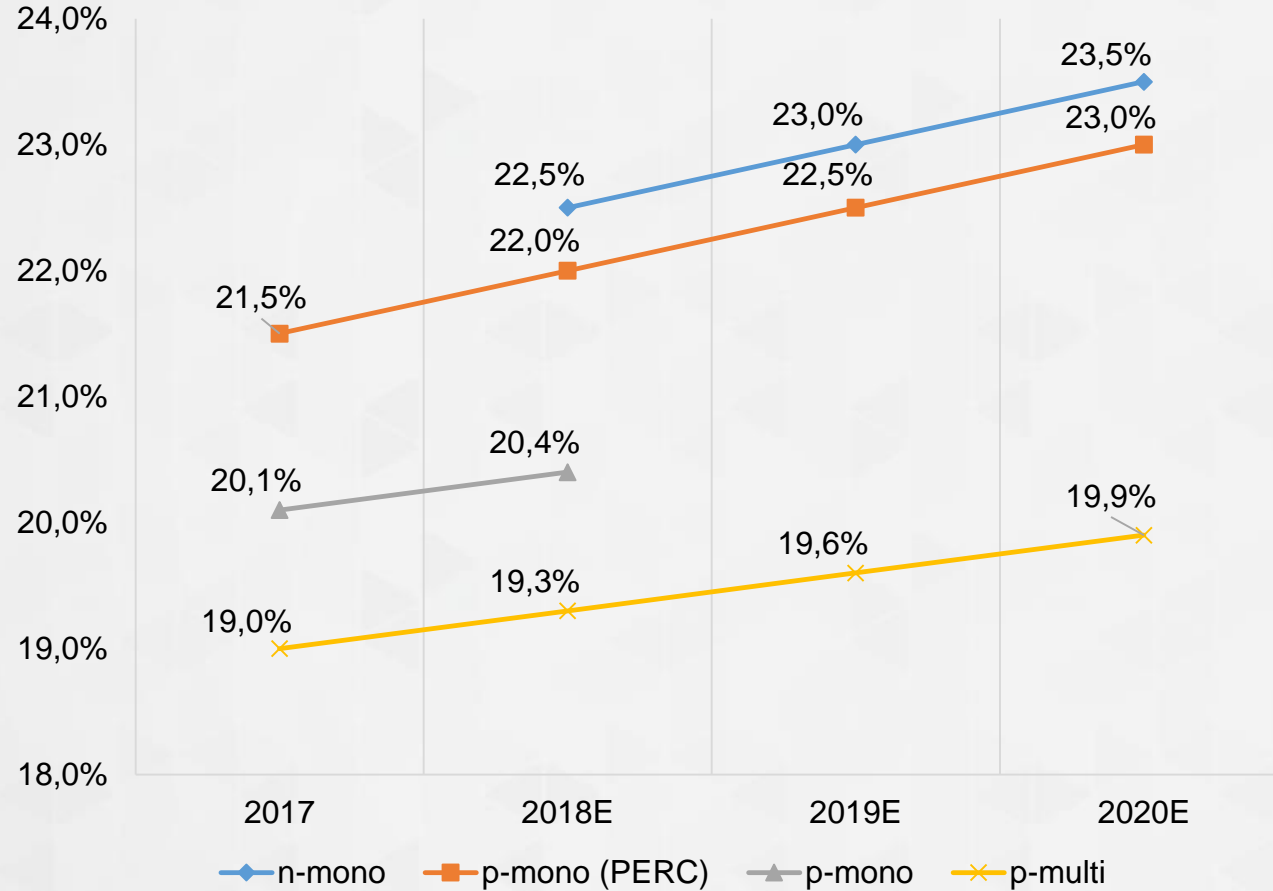
Q3 2017

Talesun is now No. 5



**Main
Products**

Industry Leading Cell Technology and Efficiency



Talesun Solar R&D talents continuously improve the cell efficiency through different cell technologies. 21.5% cell efficiency with PERC cell technology in mass production achieved.

Products series

60 CELL SERIES

1000v 660M/P

HIPRO 660M

1500V TP660M/P

TWINKLE 660M/P

FEATHER 660M/P

SMART 660M/P

72 CELL SERIES

1000v 672M/P

HIPRO 672M

1500V 672M/P

TWINKLE 672M/P

FEATHER 672M/P

SMART 672M/P

New Products

**HIMAX
Shingled
Module**

NIPRO
Bifacial Cell Module

MIPRO
12 Busbar Module

BiSTAR
Half-cut Cell Module

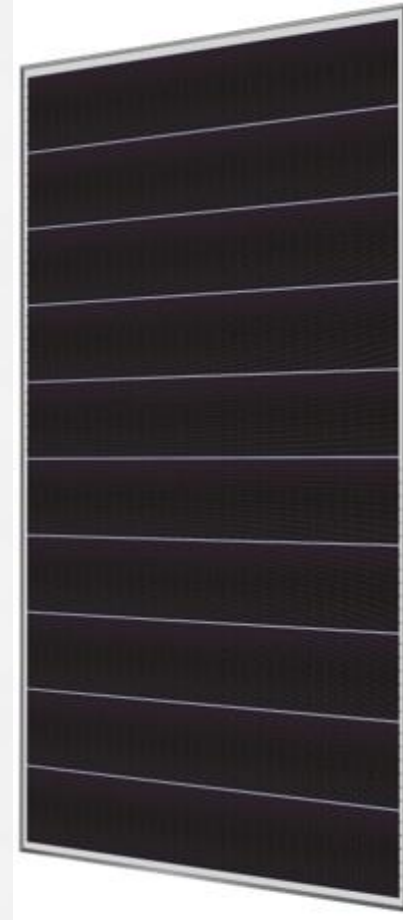
New Products Series



**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

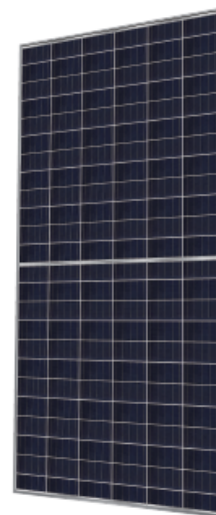
Complete System and Product Certificates

- 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

Robust Design

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

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

Innovative Module for Diversified Customers' Needs

FEATHER 2.0 Series

Lightweight modules

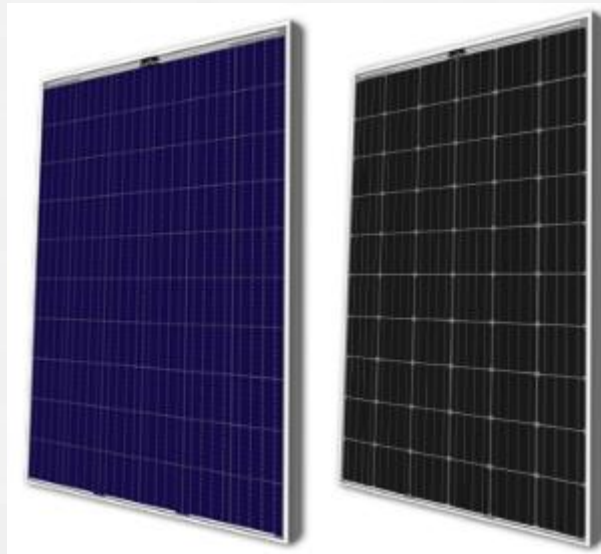
Adopt 2.0mm ultrathin tempered glass, with light frame, 14kg, 26% lighter (60 cell series based) , but yet still certified to withstand 2400Pa wind load and 5400Pa snow load.



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

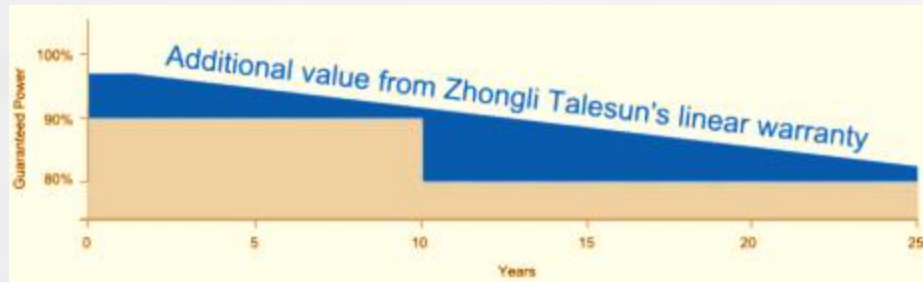


Product Warranty Backed by multi-reinsurances

Product Warranty

- ✓ 10-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 ①
- ✓ From year 2 to year 25, the actual annual power decline will be no more than 0.7% ①
- ✓ By the end of year 25, the actual power output will be no less than 80.7% of the nameplate power output ①

① 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)



Quality and Performance Certification

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

International Testing Standards

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

CE conformity, MCS (EN45011)

REACH Compliance

Certificates



Achievements

Domestic Shipment – 4000MW

Largest PV Project in the World in 2012 – 100MW

Jiayuguan, Gansu, China



Changshu, Jiangsu, China



Overseas Shipment – 2000MW

Berlin, Germany



Lincolnshire, UK



Calabria, Italy



Yamaga, Japan



Overseas Shipment – 2000MW

Aydın, Çine, Turkey



Cha-Am, Thailand



Haryana, India



One of the Top 3
Module Supplier in India!

Egmanton, UK



Overseas Shipment – 2000MW

7.2MW

Largest PV Project in Switzerland!



Onnens-Bonvillars, Switzerland



Nieuwe Tonge, Netherlands

Groningen, Netherlands



Nordhorn, Germany





Thank you