Maximize Returns On Your Solar Projects

Lower O&M Expenses

Long Lifespan / Low Degradation / Low Failure Rate

High Reliability

Industry-leading Cell Technology

- The only PV manufaturer 100% implementing high-aspect-ratio double-printing in the industry
  - Addresses contact resistance and solderability optimization without compromising one or another
  - Less finger interruption
- Superior PID-resistant performance

High-quality Components from Best Suppliers

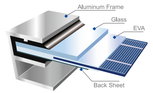
EVA
- High transparency, reliable quality
- High durability against PID degradation and UV yellowing

Back Sheet
- Fluoride material ensures excellent resistance against harsh environment and low water vapor penetration

Junction Box
- Supplied by reputable tier 1 suppliers to reduce hot spot risks
- Potted J-Box ensures excellent leak-proofness

Glass
- Closed Nanoscale structure AR-coating ensures excellent reliability and anti-soiling performance
- High transparency, reliable quality
- Excellent scratch resistance

Aluminum Frame
- Outstanding surface treatment technology and higher line density ensure strong corrosion resistance and mechanical strength
- High salt & ammonia resistance



100% In-house Automatic Module Manufacturing to Guarantee Product Quality and Performance

Manufacturing Process, Quality, and Facility Certified by TÜV SÜD,CTF and ETL, and Third-Parties Agencies Including PI-Berlin and Solar-IF

Long-term Reliability Tests

- Mechanical load test 5400Pa to 10000Pa (about 2×IEC standard)
- HAST test DH1000 （85℃ and 85% RH) to 121℃ 3 times atmospheric pressure and 100%RH
- Thresher test (about 3×IEC standard)

IEC Standard Test	Thresher Test
Thermal cycling, 200 cycles	Thermal cycling, 600 cycles
Damp heat 1000 hours	Damp heat 3000 hours
UV 15KWH	UV 45KWH
Humidity freeze 10 cycles	Humidity freeze 30 cycles
Hot spot endurance 5 hours	Hot spot endurance 20 hours

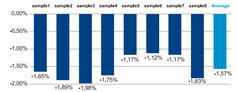
Environment Endurance Tests

Ammonia Resistance Test, Salt Mist Spray Test, S02 Resistance Test, Dust and Sand Test, Hot-Dry Climate, Damp-Heat Climate, and Plateau Climate Conditions

100% Mass-production of PID-resistant Cells, Double 85 Anti-PID 96 hours test standard for All Modules

PID: Potential Induced Degradation

Fraunhofer



Excellent Quality Management System and Product Quality Assurance

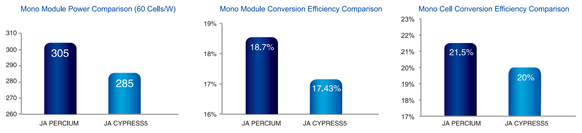
More Power Output

Lower Logistics, Installation, Land and BOS Costs / More Power per M^2

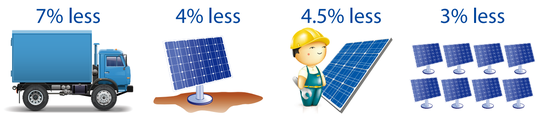
High Conversion Efficiency

100% Positive Power Tolerance:0~+5W

High Conversion Efficiency



High Conversion Efficiency Benefits



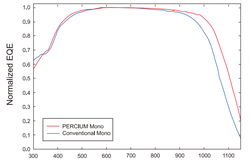
Note: Cost saving estimation is made by comparison between 295W and 275W modules

Lower Construction Cost

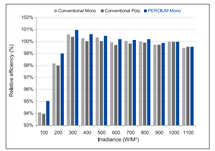
Excellent Low-light Performance / Elaborated Module Current Rating

High Yield Efficiency

Outstanding Low-light Performance



EQE—External quantum efficiency



Relative module efficency comparison under different irradiance

Source:

Elaborated Module Current Rating to Improve Yield Efficiency

The modules are classified into three current category.

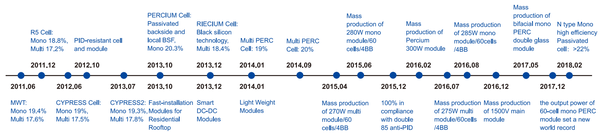
Current class—H (high)
Current class—M (middle)
Current class—L (low)

Research and Development

- **Global leader of PV cell technologies through innovation and invention**
  With its tremendous efforts spent on research and development in advancing PV technology through innovation and invention, JA Solar has firmly established itself as a globally recognized PV technology leader with a six-month leading edge ahead of the others. JA is very proud to be the first company in the world started mass producing and commercializing selective emitter, MWT, and PERC structured PV cells and applied double-printing technology to all cell manufacturing lines.

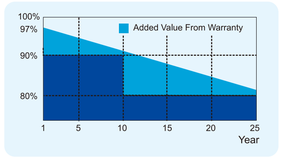
- **Industry front runner of PV module performance based on proprietary technical approaches**
  Relentlessly pursuing process optimization of PV modules assembly process and continuously improving their performance and reliability are the key engineering focus of JA Solar's extensive R&D efforts. Using proprietary technologies and various innovative approaches, in combination with its advanced cell technologies, JA Solar's PV modules consistently out-perform competitors' modules by 5-10 watts in terms of power rating.

Product and R&D Milestones



Product Warranty

- 12-year warranty on materials and workmanship
- 25-year linear power warranty（>80%）



Additional Insurance Options

PowerGuard SPECIALTY INSURANCE SERVICES

SOLAR INSURANCE & FINANCE

Premium Cells, Premium Modules

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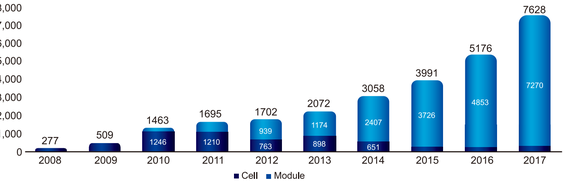
JA SOLAR

Harvest the Sunshine

Overview

Founded in 2005, JA SOLAR is a leading global manufacturer of high-performance photovoltaic (PV) products, with a business portfolio including wafers, cells, modules and photovoltaic power stations. Thanks to its 11 production bases and 27 branches, JA SOLAR products are available in over 100 countries and regions. They are used extensively in utility scale power plants, commercial and institutional applications and residential rooftops. Supported by technological innovation, sound financial performance, and an advanced global sales and service network, JA SOLAR has been well received by domestic and foreign clients. For several consecutive years, the company has been listed on the Fortune China 500 list and the World TOP 500 Energy Companies.

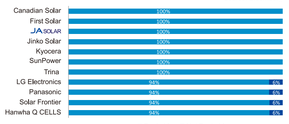
27GW Cumulative Shipments



Global Leading Bankable Module Brand

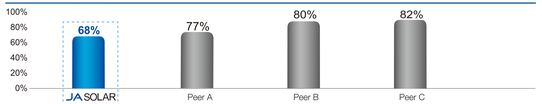
- Top bankable module brand by BNEF Survey

Source: Bloomberg

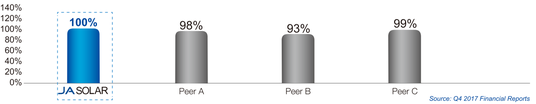


Solid Finance

Debt-to-Asset Ratio



Current Ratio



Source: Q4 2017 Financial Reports