

# *ERA*<sup>®</sup>

SOLAR





## Company Profile

ERA Solar, an internationally established company of the stock exchange listed ERA Group, is a well-known manufacturer of high quality solar cells and photovoltaic modules since long time.

At ERA Solar sustainability is top priority. ERA Solar feels strongly accountable to his partners and is making significant efforts in advancing its technology and permanently improving the efficiency and quality of the products to manufacture high quality cells and modules with high reliability and consistency over the guaranteed operation time.

ERA Solar seeks to build strong relationships to partners all over the world and meets customers' requirements with a strong sense of professionalism and accountability. According to this maxim ERA solar manufactures modules which meet the standards of quality, reliability and durable equal power rating.

Lots of customers having installed a worldwide considerable number of plants equipped with ERA modules trust in the performance advantage and equal power rating of ERA modules.

All development and manufacturing is conducted by well trained scientists, engineers and technicians focused on continuous improvements and advancement of the cell and modul efficiency, being well aware that the true value of a panel lies in its electrical output.

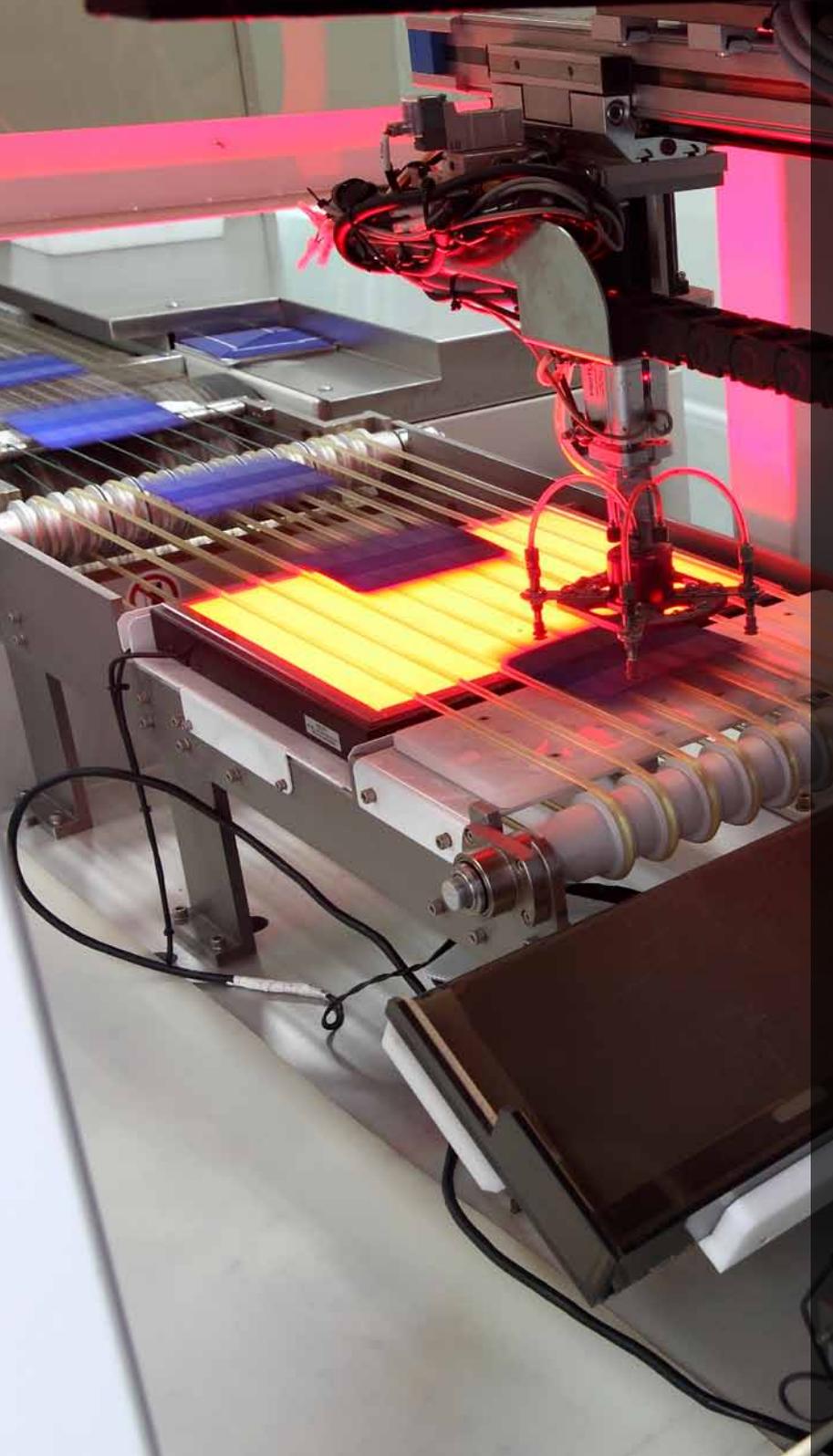


## PRODUCTION

At ERA Solar, we are committed to the performance, quality and reliability of our solar module. All of our modules are independently tested to ensure conformance with the certification and regulatory standards of IEC, UL, etc. The quality of our products is further confirmed by our ISO9001 Quality Management System certifications for our manufacturing facilities.

- Advanced production line and testing equipment
- EL-detection for each module 5400Pa loading capacity
- TUV, IEC61215, IEC61730, UL and CE certification
- Insured by one International insurance company for the power output performance





## SOLAR CELLS

Due to in-house cell production ERA Solar manufactures high quality mono- and polycrystalline solar cells according to the highest levels of international quality standards. Each cell technically and visually meets the customers' expectations for reliable solar cells with optimum and homogeneous energy output.

For the cell production ERA Solar is using advanced machines from Germany, Italy and the United States. Each cell is inspected for both, the electronic performance and surface color consistence. ERA Solar strictly carries out ISO 9001 quality control.

ERA Solar is constantly updating its technologies to deliver cells of highest quality with stable and homogenous energy output.

ERA solar cells are coated with dark blue Silicon Nitride anti-reflection film trough advanced PECVD film for homogenous color and beautiful appearance. High quality metal paste for back surface and electrode ensure a good conductivity, high pulling strength and ease of soldering.



#### High-quality

High quality metal paste for back surface and electrode, ensuring good conductivity, high pulling strength and ease of soldering.



#### Reliable

The high quality level of ERA SOLAR guarantees long life-time and high earnings.



#### Solid

Advanced PECVD film forming, providing a dark blue silicon nitride anti-reflection film of homogenous color and attractive appearance.



#### E-TDB125

Monocrystalline solar cell



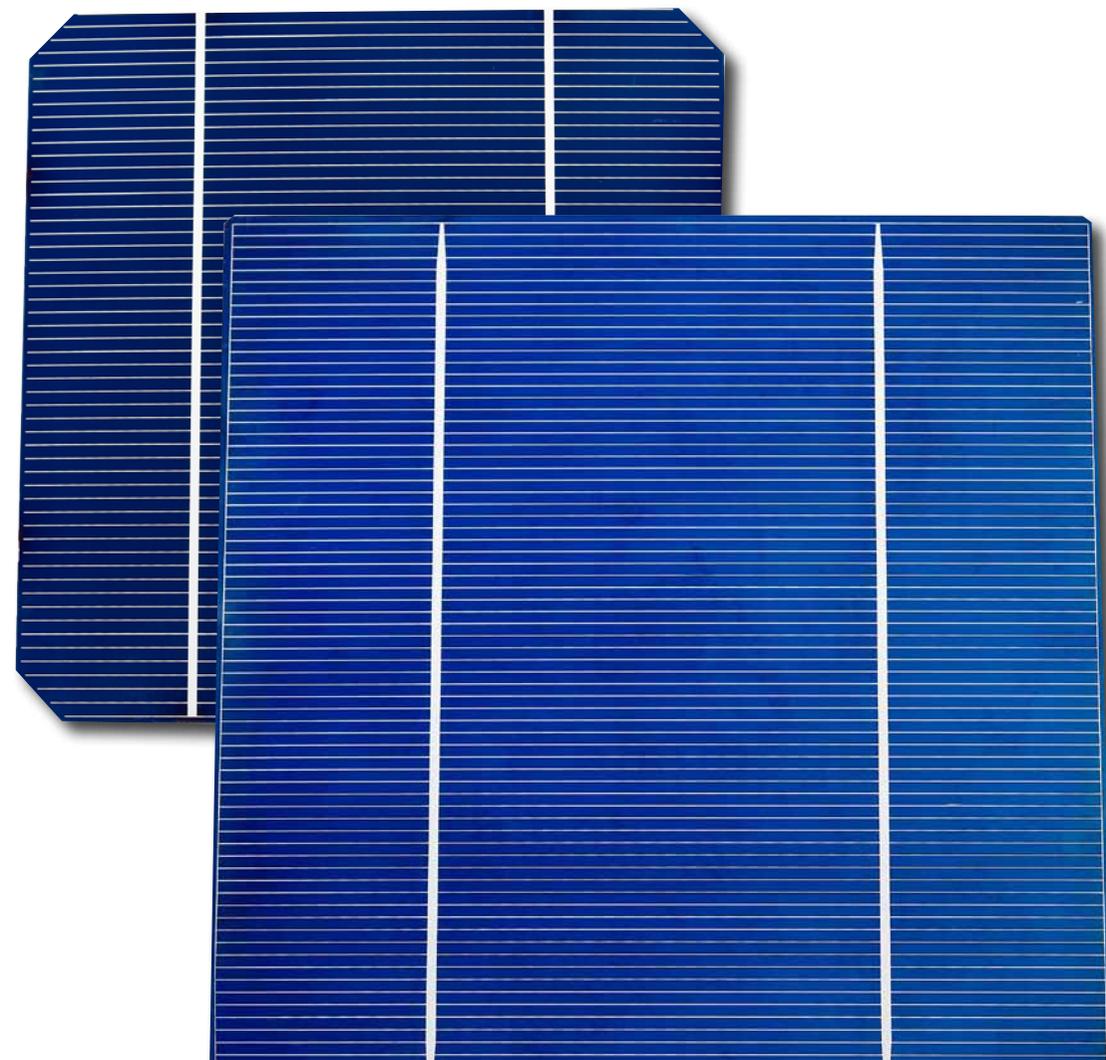
#### E-TDB156

Monocrystalline solar cell



#### E-TPB156

Polycrystalline solar cell



# Spire

②



## SOLAR MODULES

ERA Solar with its in-house cell and module production guarantees for a stable and reliable product with linear performance warranty. ERA Solar is using grade A cells to ensure quality at module assembly process.

The modules adhere to the strictest international quality standards, backed by MCS, BABT, UL, CE, EN and TUV Rheinland (IEC61215, IEC61730) certifications. ERA Solar has achieved the registration with ISO9001 and is member of PV Cycle since 2012.

For quality control ERA Solar puts its cells and modules through rigorous in-house tests in specially equipped laboratories to test in all different environmental conditions. Each module is checked via EL measurement to avoid output power loss and to guarantee best electronic performance.

The performance guarantee is covered by a third party insurance.

It is ERA Solar's dedication to manufacture solar cells and modules of premium quality and delivering the best possible value for customers.



WATTS  
POSITIVE  
TOLERANCE

10

YEARS  
PRODUCT  
WARRANTY



12

YEARS  
PERFORMANCE  
GUARANTEE 90%

30

YEARS  
PERFORMANCE  
GUARANTEE 80%



### High-quality

With 60 or 72 cells and 3 bypass diodes in power classes from 170 to 300 Wp for grid connected systems.



### Reliable

The high quality level of ERA SOLAR guarantees long life-time and high earnings.



### Solid

An Aluminium hollow-chamber frame on each side combined with low-iron and tempered solar glass ensures high load capacity resistance.



### Performance guarantee

ERA SOLAR grants a power guarantee of 90% of nominal power output up to 12 years and 80% up to 30 years.

- **ESPSA 170-200 (standard and black)**  
Monocrystalline solar module
- **ESPMC 215-245**  
Muticrystalline Solar Module
- **ESPSC 225-255**  
Monocrystalline solar module
- **ESPSC 270-300**  
Monocrystalline solar module





# QUALITY CONTROL

All development and manufacturing is conducted by well trained scientists, engineers and technicians focused on continuous improvements and advancement of the cell and modul efficiency, being well aware that the true value of a panel lies in its electrical output.



For quality control ERA Solar puts its cells and modules through rigorous in-house tests in specially equipped laboratories for material and components testing, quality checks, UV hotspot , micro crack testing, pressure load test, outdoor exposure, humidity, freeze, robustness and so on. For maximum endurance in all weather conditions as water exposure, wind pressure, hail impact and snow load. ERA Solar delivers what is promised.





**PV PLANTS ON  
OPEN TERRAIN**



## REFERENCE PROJECTS

Despite all differences in the respective countries ERA Solar recognizes what all customers are searching for: long-term strength they can rely on and solutions that meet their needs. That's what ERA Solar fulfills with longlasting high quality products and excellent customer service.

A large number of worldwide installed plants equipped with ERA modules delivers day after day maximum energy output with excellent long term reliability.

The power output of worldwide realized plants shows that ERA Solar modules produce more energy in real-world environments.



**Commercial &  
industrial rooftops**



**Building integrated  
PV Systems**



Thailand

**8 MW**



Sala Bolognese (IT)

**2.5 MW**



Bechynze (CZ)

**2.2 MW**



Ledenice (CZ)

**1.4 MW**



Conselice (IT)

**1 MW**



Viglas (SK)

**1 MW**



Sevetin (CZ)

**920 kW**



Krasovice (CZ)

**750 kW**



Taviano (IT)

**720 kW**



**Dynin (CZ)**

**2.1 MW**



**Bavaria (DE)**

**1.5 MW**



**Burgos (ES)**

**1 MW**



**Parma (IT)**

**1 MW**



**Picek (CZ)**

**500 kW**



**FE (IT)**

**378 kW**



**Vigarano Mainarda (IT)**

**100 kW**

## PV PLANTS ON OPEN TERRAIN

A considerable number of worldwide installed plants with ERA modules on commercial and industrial rooftops and plants on open terrain deliver a maximum and stable energy output and guarantee highest return on investment.

The high quality standard of ERA Solar modules guarantee for a reliable power output the entire life span of the plant.





**Bologna (IT)**

**176 kW**



**Germany (DE)**

**160 kW**

## COMMERCIAL & INDUSTRIAL ROOFTOPS

ERA modules with high conversion efficiency are the perfect solution where high performance is required. Excellent for surfaces of limited size such as house roofs. Installation costs can be reduced with increased yield.

For solar parks and industrial application ERA Solar focusses on reliability and linear longtime performance for a maximum return on solar investment.



**Bologna (IT)**

**18 kW**



**Stiel (CZ)**

**18 kW**



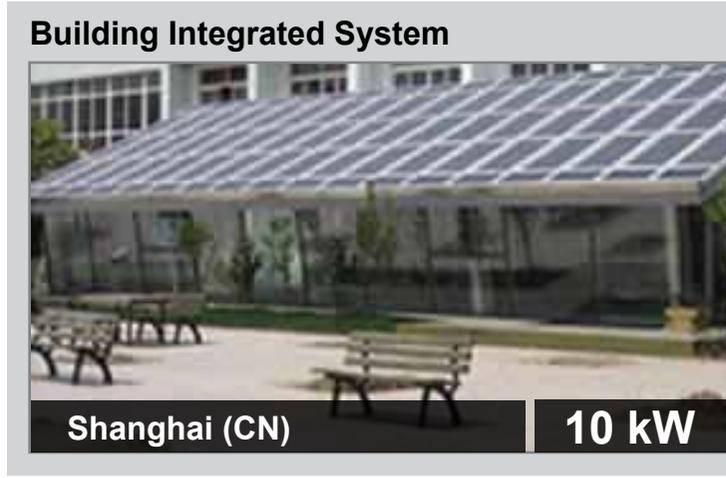
**Vicemil (CZ)**

**4 kW**



**Sydney (AU)**

**1.1 kW**



### Building Integrated System

**Shanghai (CN)**

**10 kW**





## ERA WORLDWIDE

In management an experienced executive team with a strong background in strategy operates the Photovoltaic business and acts in ways that work for the customers by providing first class modules and by offering excellent service all over the world.

ERA Solar has a strong understanding of global markets and never neglects local needs and concerns. Partners in various countries support this service and provide assistance to all concerns in the respective country. ERA Solar maintains centrally located warehouses in Europe for a distribution network with minimal lead time.



Visit us on internet:  
[www.erasolar.com.cn](http://www.erasolar.com.cn)



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