

# SOLAR MODULES MANUFACTURED IN GERMANY

## – Quality Made in Germany

Frankfurt (Oder) is home to one of the most cutting-edge, fully automated production lines in the whole of Europe. Astronergy currently uses the site to produce 300 MW of solar modules every year.

Our fully automated production facility guarantees our customers series-produced modules that comply with the highest quality standards. To permanently safeguard this level of quality, we apply the smallest possible production tolerances, conduct strict quality controls at each step of production, and use high-grade raw materials and components. Short delivery times and distances are a major

benefit to all our customers in Europe. This allows them to react quickly to sudden peaks in demand.

If you make a claim under a warranty, it will be dealt with in Germany. We provide quick and communicative support to ensure your complaint is processed smoothly. We are proud of our low complaints rate that is well below the industry average.

Through the constant improvement of our processes and the integration of state-of-the-art systems, we guarantee the high demands of our customers will continue to be met in the future. As you can see, we don't just focus on quality – we deliver it. Day after day.



**Astronergy Solarmodule GmbH**  
Chint-Allee 8  
15236 Frankfurt / Oder  
Germany  
Tel.: +49 (0) 335 521130  
Fax: +49 (0) 335 52113491



**THOMAS VOLZ** | CEO

Talking to our highly dedicated staff in Frankfurt (Oder) every day is hugely motivating for me. Quality standards don't just exist on paper here – everyone does their bit to make sure our customers and partners are satisfied. From purchasing and production, to quality control, logistics and service, everyone here sees themselves as part of a team and approaches their work with the needs of our customers and partners in mind.

Our parent company CHINT brings a wealth of expertise, resources and opportunities to Astronergy, which helps us achieve our goals.

We have one of the most state-of-the-art production sites in Europe and are committed to the continuous further development of our products and services over the coming years.

Courtesy of our Astronergy partner:

[www.astronergy-solarmodule.de](http://www.astronergy-solarmodule.de)



## ASTRONERGY SOLAR MODULE PRODUCTION

– modern, high-grade, dependable

THE POWER OF ASTRONERGY

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A CHINT COMPANY



**ASTRONERGY**



## DEPENDABLE PREMIUM QUALITY

### – Customer satisfaction module after module

*State-of-the-art systems for producing series of solar modules, stringent in-house quality assurance processes, and our expert, highly trained staff mean that our customers always have access to reliable modules at attractive, competitive prices.*

We produce solar modules on five fully automated manufacturing lines for the German, European and international market. The current total annual capacity is 300 MW. Our customers value the consistent high quality and speedy availability of our products. In achieving ISO 50001 energy management system certification in 2015, Astronergy showed that it is committed to sustainable development and continuous innovation.

State-of-the-art technology, modern laboratories for in-house quality assurances, stringent criteria for selecting raw materials and components, plus a wide range of internal and external checks all lead to one thing: highly satisfied customers.

## ASM6610P

### – crystalline PV modules

*Impressive module design, thorough cell selection checks, solid frames, extreme resilience: The ASM6610P module has the optimal properties for secure yields.*

Lasting quality is all a matter of planning: Our state-of-the-art, fully automated series production means we can implement continuous process control, and you can be sure that all our modules keep the promises we make. A Data Matrix code facilitates the controls and lets us trace each module right back to the very first step in its production process.

The moulded junction box is IP67-rated. It provides reliable protection against moisture and dust and extends the operating life of the diodes. We use the fastest and highest-resolution electroluminescent (EL) devices on the market to check the inner values of each module. Solid frames protect against damage from freezing moisture, even during heavy frosts.

With its internal and external quality controls, and stringent technical and optical criteria, the ASM6610P is the perfect choice for anyone seeking outstanding quality and excellent value for money.

#### Benefits at a glance:

- Full EL tests for cell breakage
- Robust and frost-proof thanks to solid frames
- Can withstand snow loads of up to 6,000 Pa
- Sealed, waterproof and cool thanks to IP67 junction box
- Certified against ammonia and salt mist corrosion
- Fast, solution-oriented processing of warranty claims
- Can withstand hail stones up to 45 mm in size
- Extremely resilient anti-reflection coating, proven in sand particle tests



*A premium module that incorporates the expertise of German and Chinese solar experts and has a very good price-performance ratio: the ASM6610P*



CERTIFICATES AND WARRANTIES	
Certification	IEC 61215 second edition, IEC 61730
Product warranty <sup>1</sup>	12 years
Performance guarantee <sup>1</sup>	linear performance guarantee
Year 1	>97,5% of the minimum performance level
Year 25	>80,7% of the minimum performance level

<sup>1</sup> In accordance with the current warranty conditions of Astronergy Solarmodule GmbH  
<sup>2</sup> From ISO 9001/14001/50001-certified production

## IDEAL LOCATION, POSITIVE SYNERGIES

### – German-Chinese success model

Astronergy is an internationally renowned manufacturer of solar modules using state-of-the-art production systems. Its site in Frankfurt (Oder) brings together experience, expertise and skills from Germany and China. Throughout Europe, our customers benefit from outstanding, German-made quality at attractive prices. Delivery times are fast, delivery distances are short, warranty claims are handled in Germany, and

service and advice are provided on location.

We have guaranteed long-term access to international raw material markets through our parent company CHINT. All this means you can look forward to reliable deliveries, even in cases of short-term higher demand.



*State-of-the-art production in Frankfurt (Oder), highly skilled employees, expertise and opportunities from China: using synergies to benefit our customers.*

## A CHINT COMPANY

*CHINT, Astronergy's parent company and its largest shareholder, is one of the world's leading companies specialising in low-voltage technology, energy transmission and energy grids. CHINT supplies customers in more than 90 countries and is one of China's biggest technology companies.*

Since it was founded in 1984, the company has become known to millions of customers as a supplier of reliable, mature solutions. Customers all over the world benefit from CHINT's excellent customer service that comes with more than 25 years' experience. The CHINT group is made up of eight subsidiaries, over 2,000 distribution centres and more than 40 offices around the world.

