



**CONERGY**

**Conergy PowerPlus solar modules  
Reliable yield plus durability.**

March 2009

## Conergy PowerPlus – uncompromising quality from one of the most modern solar fabs in the world.



Wafer production



Cell line



Module production

## Reliable yield plus durability. Conergy PowerPlus.



We work with passion every day in Frankfurt/Oder to deliver only the best modules to our customers.

With PowerPlus we offer installers and end customers a **powerful module**, which is **durable and reliable** due to the combination of excellent components.

A good efficiency combined with the highest reliability make our module to a true yield warrantor.

## Conergy PowerPlus – Your Plus in yield and durability.



### Reliable yield

- | Low power tolerance +/- 3%
- | 5 years product guarantee
- | 12 years warranted power of 90% (of Pmin.)
- | 25 years warranted power of 80% (of Pmin.)
- | Very good yield in practice

### High durability

- | Resists up to 5400 Pascal
- | Excellent product components

### Uncompromising quality

- | Fully automated production
- | Quality inspected in every detail

# The combination of all product components makes out module Conergy PowerPlus.



## Our Plus: Durability due to specially designed junction box.



### Durability

- | Safe in all operation modes (also in case of partial shading)
- | Top-quality materials and processing



### Our plus for installers

- | Safe connection with twist interlock
- | Safe module handling and mounting due to connectors at the connection box

## Our Plus: Yield and durability thanks to innovative cell design



### Durability

- | Long life-cycle due to lower currents in the cell connectors

### Yield

- | Very good efficiency due to reduced resistance between cells (3-bus-bar technology)

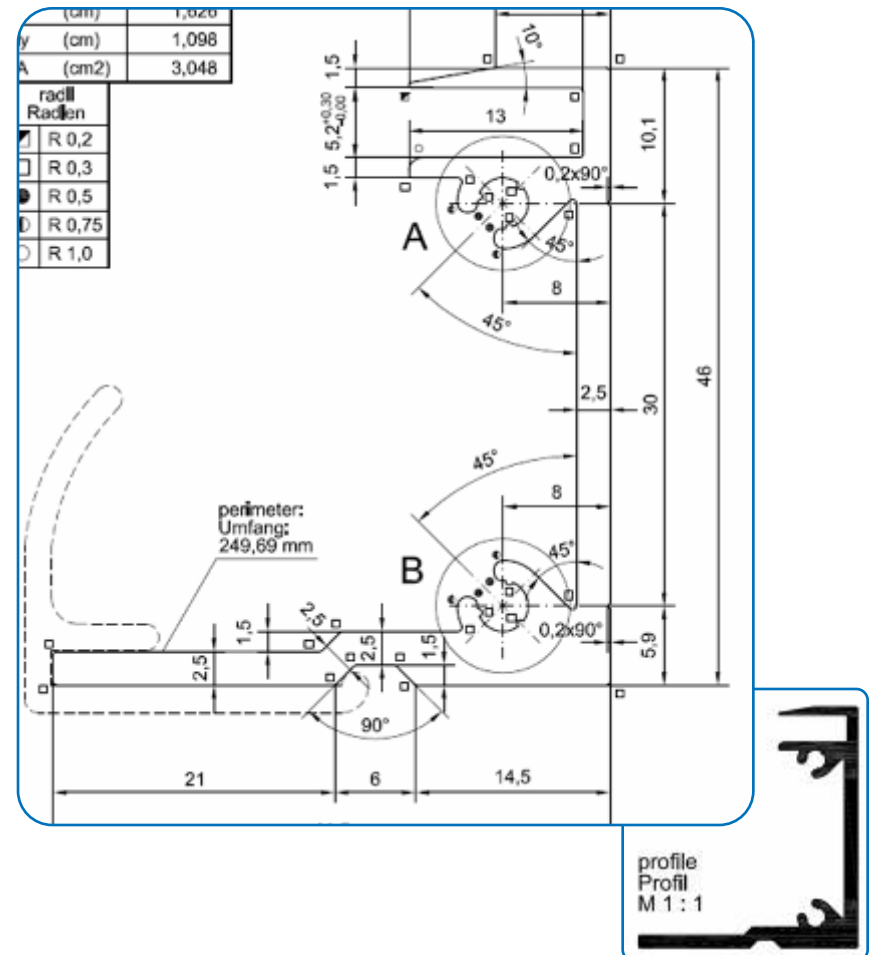
# Out Plus: Yield and durability thanks to specially developed module frame.

## Durability

- | No cavities – no module breakage due to freezing water
- | Special screws – secure durable galvanic connection for electrical safety

## Yield

- | Special angled edge – reduces shadow due to accumulation of on the glass





## Our Plus: Durability due to 4mm glass.



### Durability

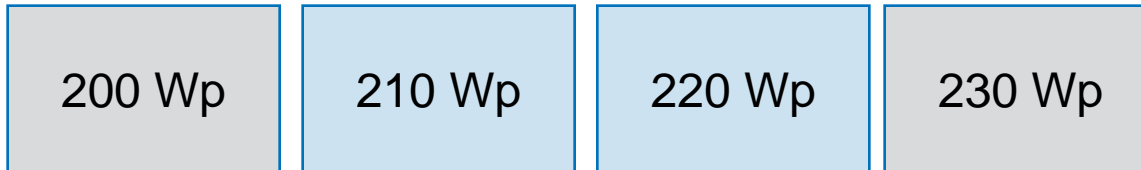
- | Protection against environmental impact (i.e. snow)
- | High mechanical stability of the module (i.e. in case of wind)

## Conergy PowerPlus – Your Plus in your product portfolio.

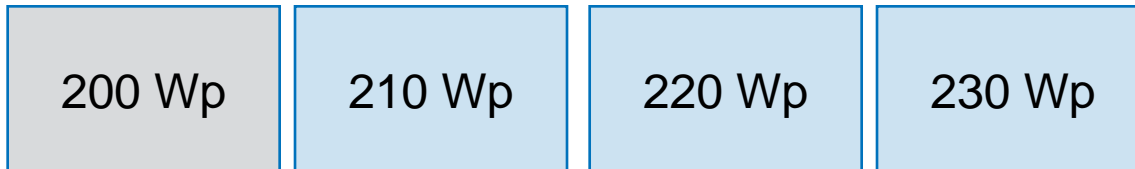
- | „Made in Germany“ as important sales argument for a module
- | Reliable yield and durability provide maximal return for your customers
  - | Good efficiency
  - | Very good yield in practice
  - | Low power tolerance
  - | High product guarantee
  - | Highest warranted power 1 (12/90)
  - | Industry standard warranted power 2 (25/80)
  - | Unique combination of product components
  - | Fully automated production
- | Strict test criteria secure the promised quality
  - | Certificate IEC 61215 ed.2
  - | Certificate IEC 61730
  - | Static load test 5400 PA
- | Safe installation and time saving due to
  - | Easy module handling

## Your Plus for every installation – Power classes Conergy PowerPlus

Four power classes for polycrystalline modules



Four power classes for monocrystalline modules\*

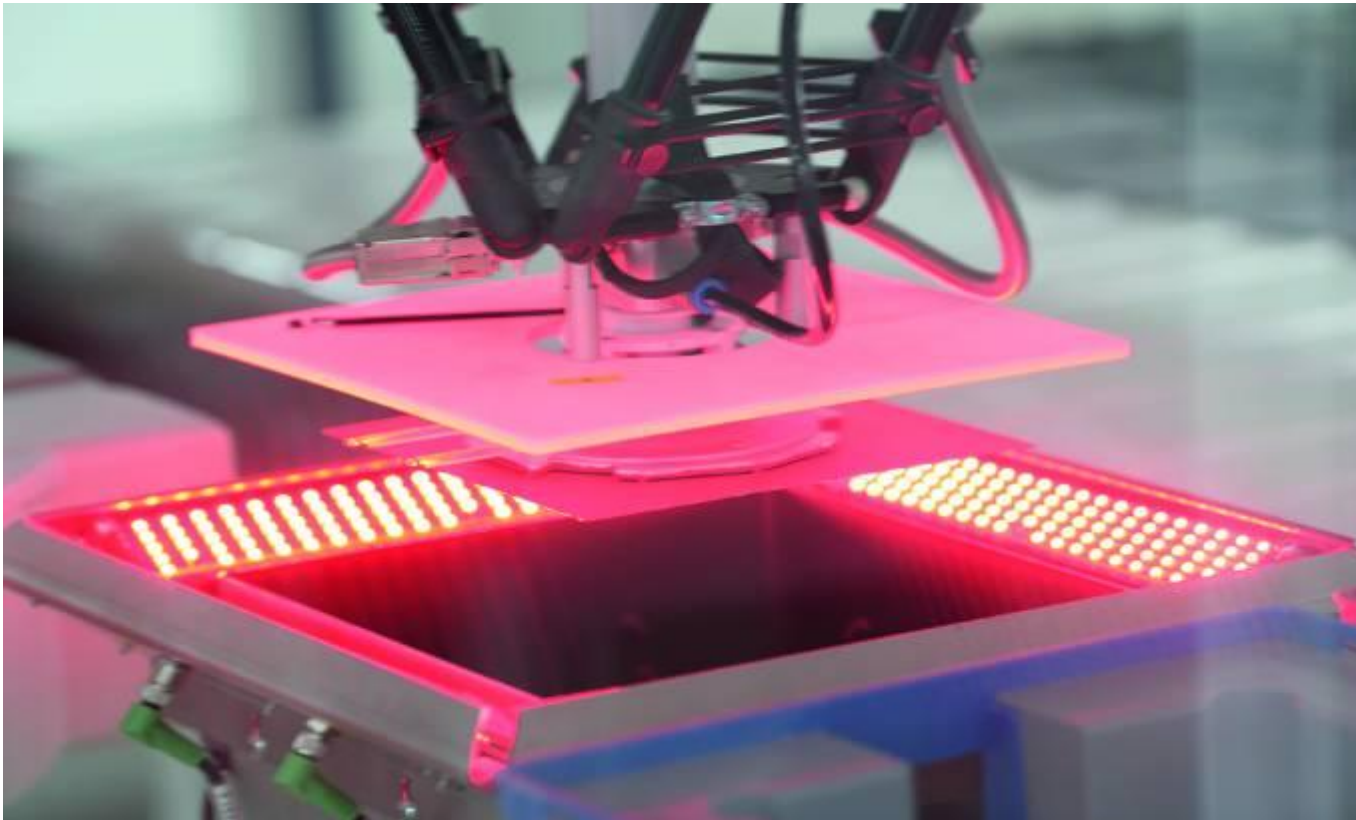


\*available on demand

**Quality without compromises – secured due to own fully automated production in Frankfurt/Oder.**



## We focus on superior technology for perfect products: Wafer tester for breakage detection



## **Nothing is left to chance: Sorting of cells based on optical and electrical characteristics**



## Continuous quality control: Optical control and cleaning of module



## Reference installation: Science center Kiel

| Location: Kiel

| Commissioning: February 2008

| Power: 26,4 kWp

| No. of Conergy PowerPlus 220P: 120

**Produces approx. 29.000 kWh  
clean electricity annually.**





## Reference installation: Officecamp Lübeck

| Location: Lübeck

| Commissioning: January 2008

| Power: 23,46 kWp

| No. of Conergy PowerPlus 230P: 102

**Produces approx. 23.554 kWh  
clean electricity annually.**



## Referenzanlage: PV large project in Spain

| Location: El Calaverón

| Commissioning: September 2008

| Power: 21,2 MWp

| No. of Conergy PowerPlus  
Modules: 96.000

| Area: 100 Hectare

**Produces approx. 40.000 MWh  
clean electricity annually.**





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**Thank you for your attention.**