



Newsletter May 2019



We lift the curtain...

...for our new exhibition stand with the motto
"aesthetic power generation".

Look forward to new

- PV modules with up to 53% transparency and highest performance,
- new terraces and carports,
- 2 bifacial Tracker systems suitable for small and large installations
- and other surprises.

You can benefit from special discounts directly on site.

Are you curious about what's behind the curtain? Visit us at **Booth 509 in Hall A1 at Intersolar** in Munich and find out.



Solid wood carport at introductory price

From now on you can pre-order our popular carports M and M-L in wood versions.

All components are made of high-quality solid construction wood. This has a low risk for crack and shrinkage. The construction is carried out according to our statics for the relevant snow load zone. For a small surcharge you get the construction in 3 different standard colours (white, grey or dark brown). Other RAL colours on request.

Find out more under the following link: <https://bit.ly/2GWDrrl>

Article	Double Glass Modules incl. rainproof Mounting
Carport M-W made of wood	6 x M40-2 Modules
Carport M-L-W made of wood	8 x M40-2 Modules

For a small surcharge you get the corresponding construction in 3 different standard colours (white, grey or dark brown). Of course, you can also paint your construction yourself in the colour of your choice.

Special sale ex stock:

Carport M **inclusive** M40-2 PV Modules



Price on request

sample picture

<i>Size (approx.)</i>	
depth x width	3.38 m x 3.10 m
front high x rear high	2.28 m x 1.93 m
Total Weight (incl. Modules)	approx. 294 kg
Modules	6 x M40-2 (each 180 Wp)
Total Output	approx. 1.1 kW

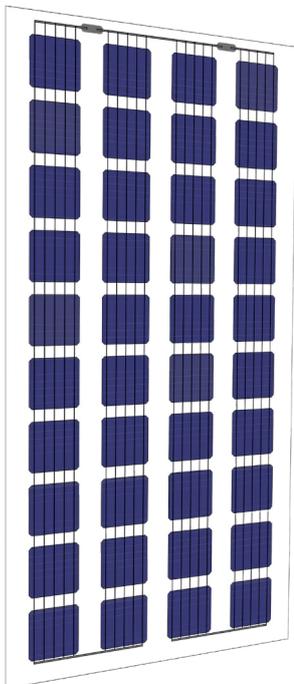
Carport L **inclusive** M40-2 PV Modules



Price on request

sample picture

<i>Size (approx.)</i>	
depth x width	5.05 m x 3.10 m
front high x rear high	2.37 m x 1.93 m
Total Weight (incl. Modules)	spprox. 401 kg
Modules	9 x M40-2 (each 180 Wp)
Total Output	approx. 1.6 kW



New at Intersolar: Bifacial greenhouse module B40 with record transparency and performance

Greenhouses play an increasingly important role among hobby and professional gardeners.

Especially for this target group, but also for terraces and winter garden, we have developed a particularly transparent but powerful module. Up to 250 Wp output is possible on approx. 50 % of the surface (front side 210 Wp + up to approx. 40 Wp from the bifacial back side). The 50 % transparency provides sufficient brightness for most plants, especially as the north sides of the roofs are usually installed with glass without modules.

Due to the high transparency combined with extreme durability and very reasonable prices, the modules are also ideal for terraces, carports and other roofs. They are optionally supplied in combination with our waterproof mounting system.

We are giving you the gift of admission to Intersolar Europe 2019!

We are looking forward to welcoming you at our **booth 509 in hall A1** and to interesting discussions.
For free admission, simply send us a short mail and we will send you a voucher code.

At the fair we will exhibit new products to exclusive fair offers.
Your visit will be worth it.



The image shows a promotional banner for the Intersolar Europe 2019 booth 509. The banner features the 'intersolar' logo with the tagline 'connecting solar business | EUROPE'. It also mentions 'Free Entrance sponsored by Almaden and GRID PARITY'. The dates '15-17 MAY 2019' are displayed in a yellow box. Below the text, there is a photograph of a busy trade show booth with several people, some wearing orange hard hats, engaged in conversations. The booth has 'Almaden' and 'GridParity' branding.

You ask, we answer!

Collected questions about bifacial modules:

1. How does the additional yield of bifacial modules arise?

Bifacial modules generate electricity on the front and back. The front side produces the full yield (e.g. 310 Wp) and the back side an additional yield which depends on the reflection of the ground. In our catalogue on p. 8 different colors of the ground are shown as well as possible additional yields. An average of 15 - 20 % can be assumed for a light ground. A 310 Wp module thus generates an additional yield of approx. 46 Wp, the module in total thus approx. 356 Wp. However, only a slightly higher price is calculated on the basic output of 310 Wp.

2. Are bifacial modules also suitable for roof systems?

Only if the elevation on the roof allows a height of at least 60 cm above the roof skin.

3. I want to install a carport. Do bifacial modules bring an advantage?

Yes, especially if the area under the carport is bright and light is reflected from the surroundings such as the walls of the house.

4. Are bifacial modules also suitable for greenhouses?

Yes, they are. In Greenhouses usually modules with high transparency (e.g. 50%) are used. The light shining through the modules is then partly reflected by the substrate and produces interesting yields on the reverse side (15 - 20 %). Due to the high roofs of greenhouses, the conditions are almost ideal.



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