

## SUN MCB 72 / 290 –305

### Customer oriented product design

Because of the black-coated aluminium frame and the black cells the panel shows with harmonical appearance. This is why the panel does not only convince with its look, but further it guarantees for long resistance. The combination of panels and the Black Sun System completes the appearance on the roof.

### Powerfull solarcells

Monocrystal Panels are able to produce a high amount of energy even running with diffuse lighting conditions (e.g. clouded sky). The high-quality and powerful panels are manufactured by a vertical production-line in a fullautomatic kind of proceeding. In combination with other kind of panels from our stock, this allows a optimal utilization of roof areas, especially on small roofs with maximum Power needed.

### Easy and quick mounting

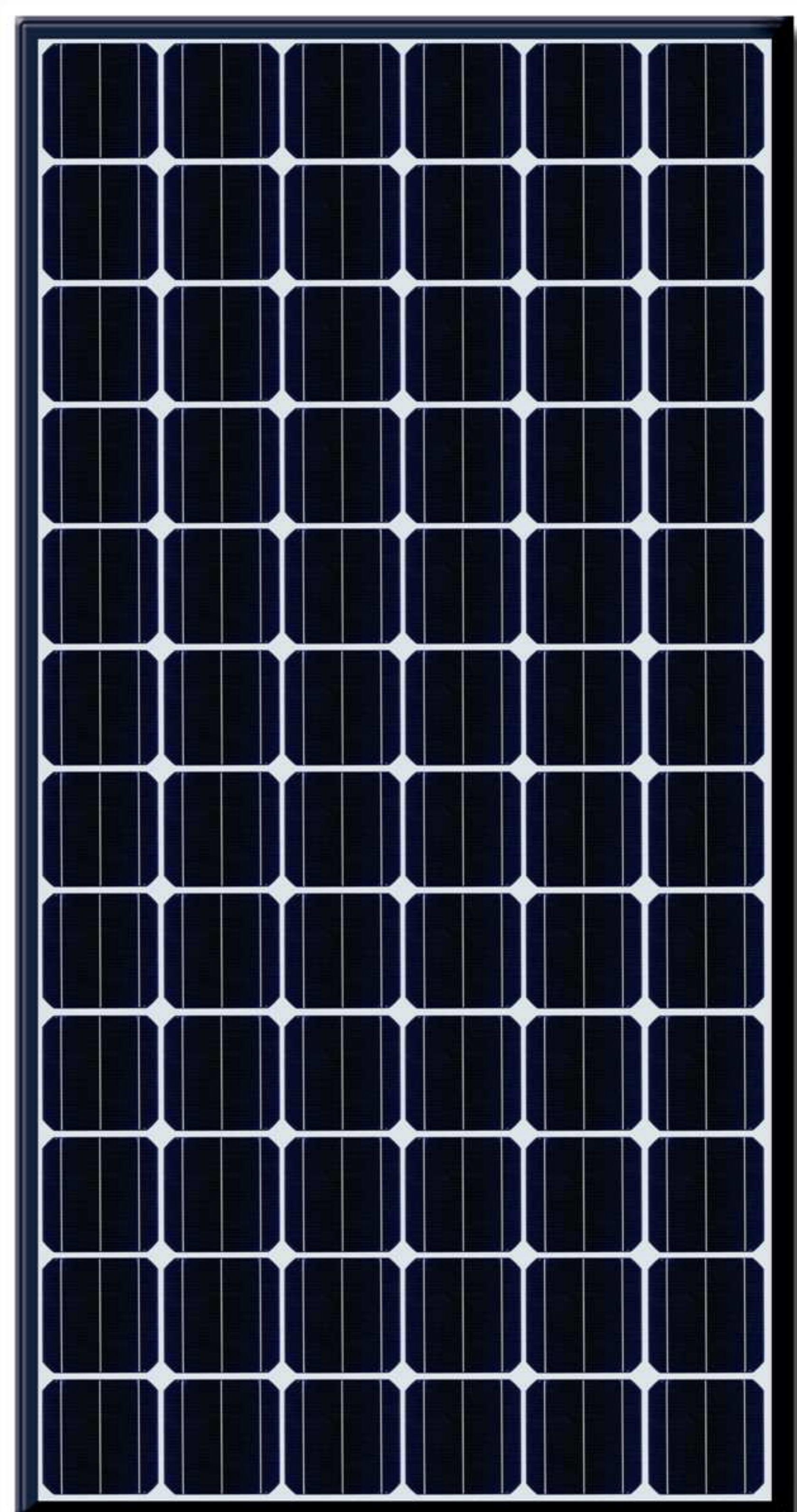
The panel's sturdy aluminium frame and the pre-assembled solar cables and connectors ensure a very high mechanical stability and this is why they can be mounted easily and quickly. The self-supporting metal-construction guarantees a high stability which resists extreme wind forces and snow loading.

### Tight powertolerance

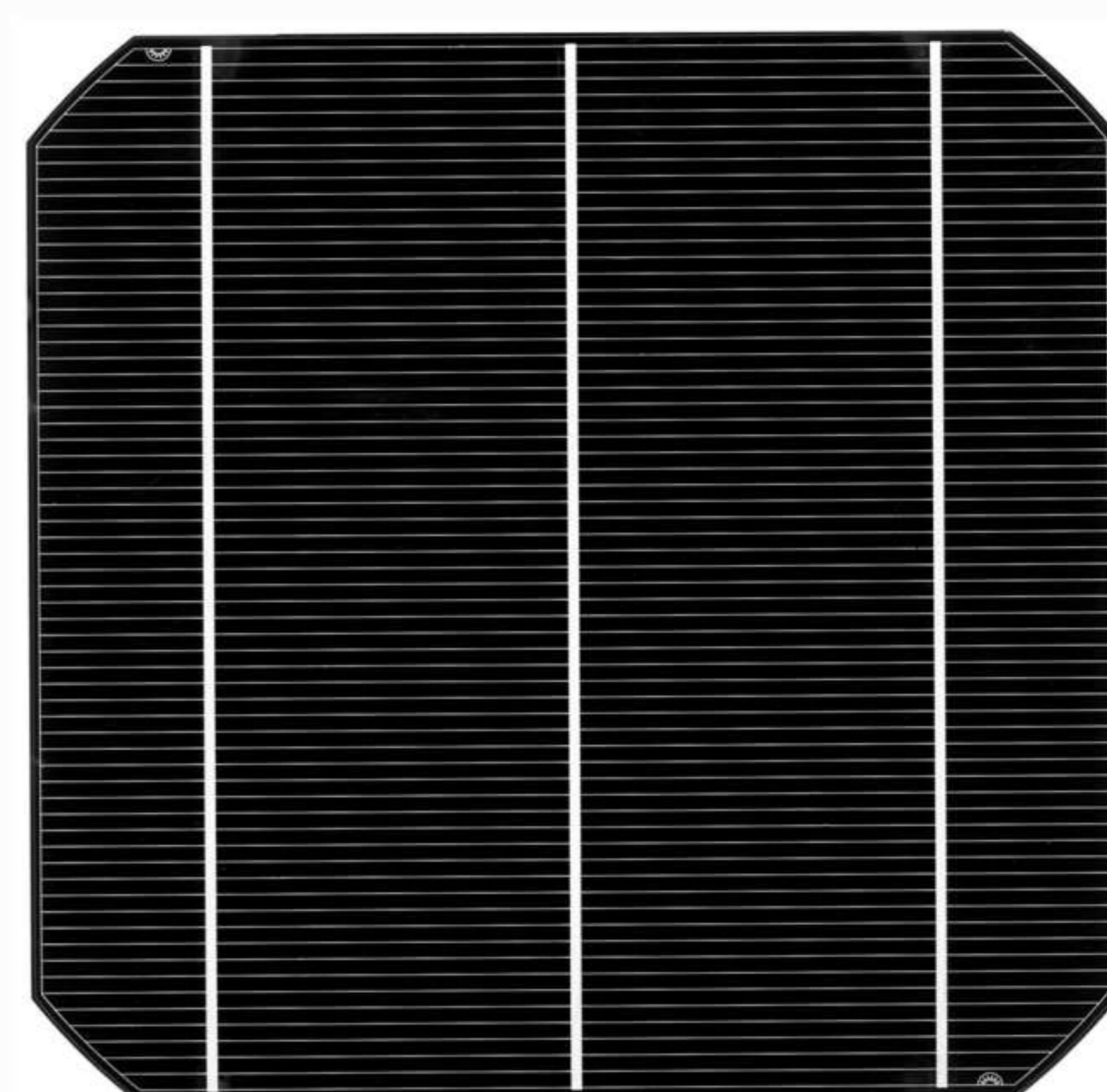
Series connection with smallest wastages (mismatching) are possible because of closely selection which allows a optimal power plant performance.

### High power rating

This kind of panels produce powers with up to 305Wp each, wherewith this high power panels are perfect for small single power plants and of course big industrial power plants.



Monocrystal



Monocrystal panels show a homogen appearance to the beholder. High-quality produced solar cells, high quality of the panel-construction, long working life with highest energy yield and simultaneously a cheap system-integration with optimal utilization of the areas are just the most important priorities of our Black Sun panels.

### Specifications

Type	Sun MCB	305	300	295	290
Pmpp [W]		305 -0/+3%	300 -0/+3%	295 -0/+3%	290 -0/+3%
Voc [V]		44,9	44,8	44,6	44,5
Isc [A]		8,87	8,80	8,73	8,67
Vmpp [V]		36,2		35,9	35,8
Imp [A]		8,43	8,32	8,22	8,11
Module efficiency		15,75 %	15,49 %	15,23 %	14,98 %
Maximum system voltage [V]		1000 V			
Voltage temperature coefficient		- 0.307% / K			
Current temperature coefficient		+ 0.039% / K			
Power temperature coefficient		- 0.423% / K			
Cells		6 x 12 pieces monocrystalline 156 mm x 156 mm			
Junction box		6 bypass-diodes			
Cabel / Connector		1 x 4 mm <sup>2</sup> / M C 4			
Front glass		3,2 mm Safety glass			
Cell encapsulation		EVA			
Back sheet		Composite film			
Frame		Black anodized aluminium profile			
Dimensions ( L x W x H ) / Weight		1956 x 990 x 50 mm / 23,8 kg			

The electrical data relates to standard test conditions [STC]

### Max. operating condition

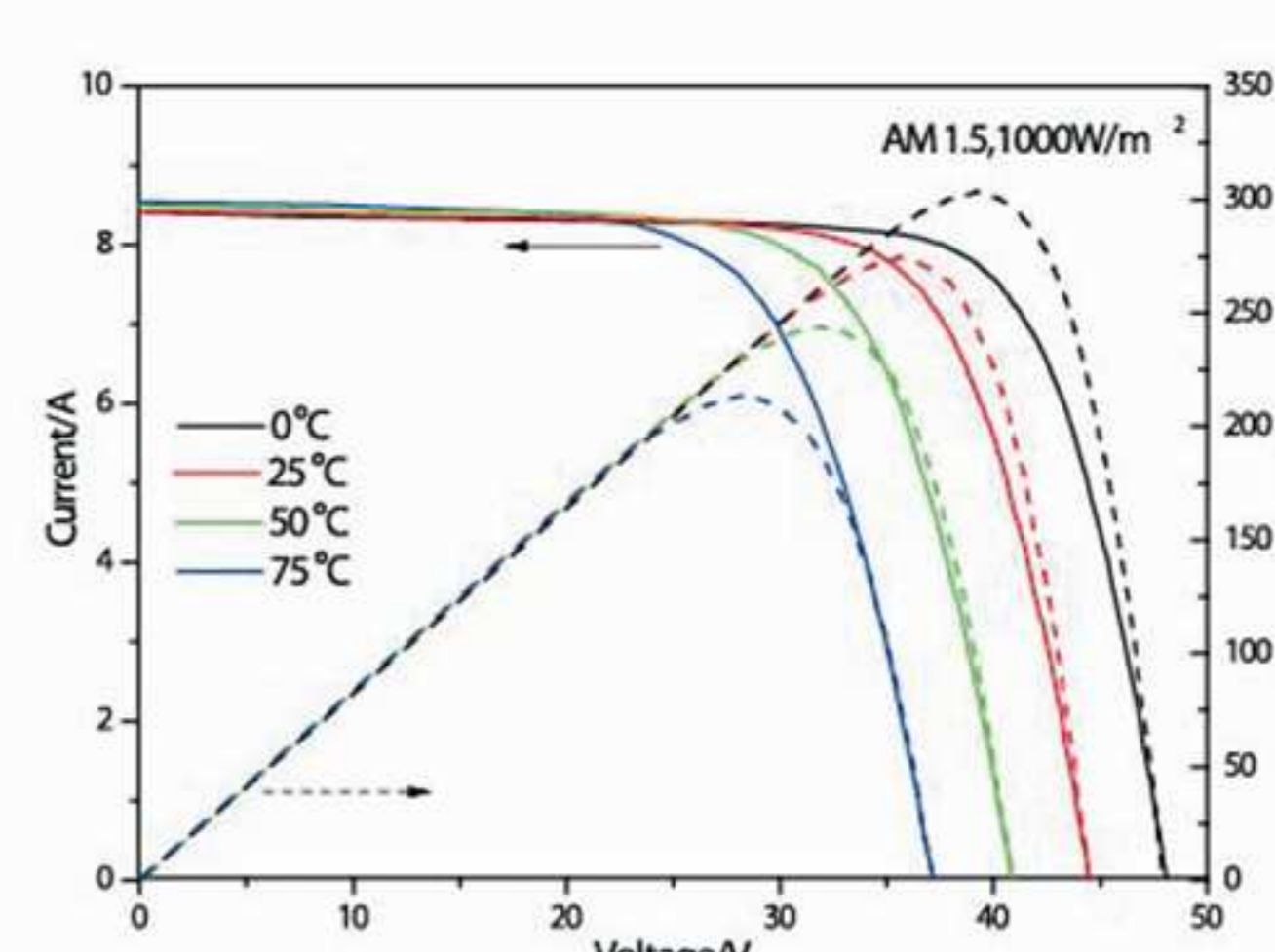
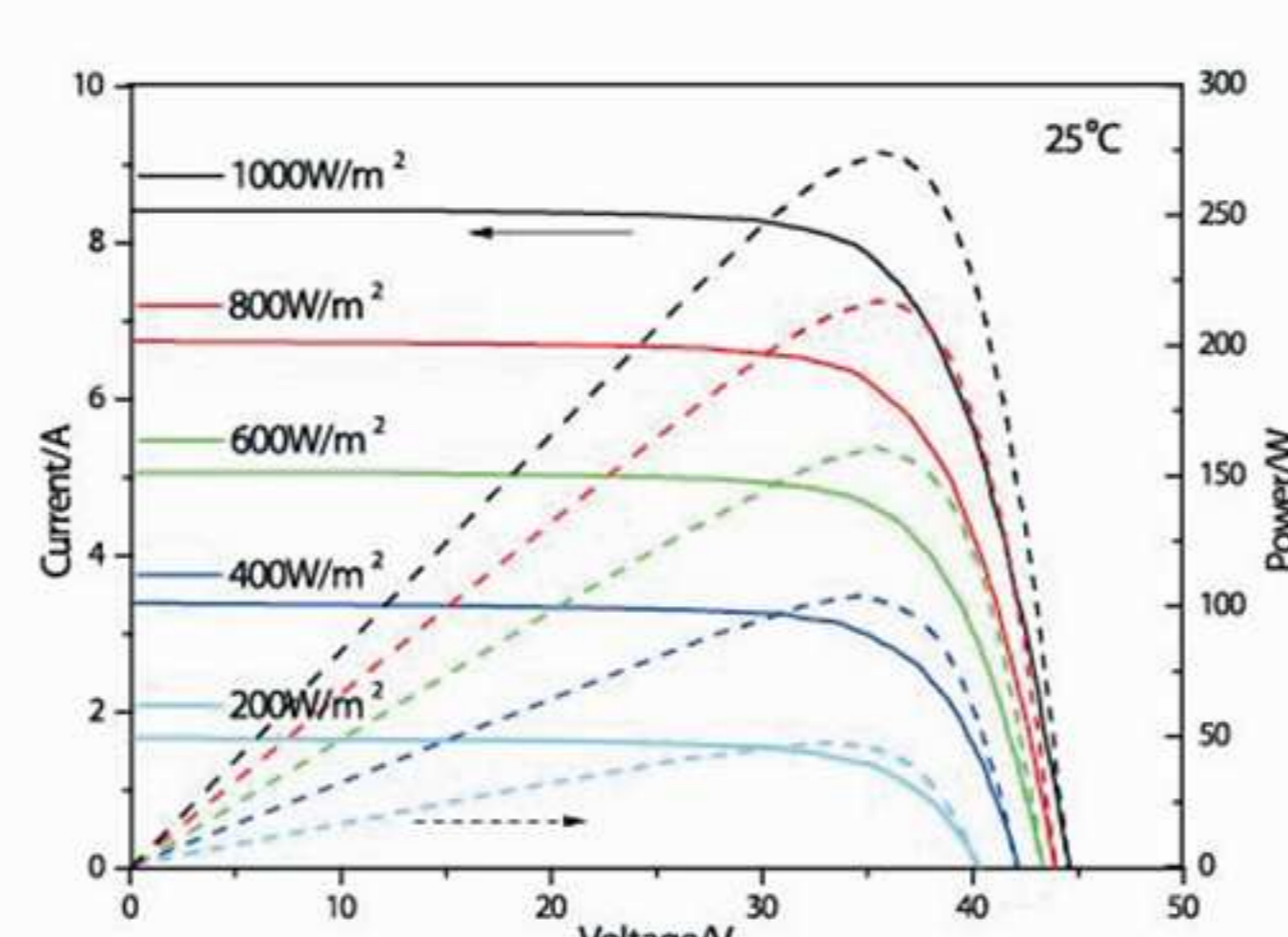
Maximum surface load capacity	Tested up to 5,400 Pa according to IEC 61215
Hail	Max. diameter of 25 mm with impact speed of 23m/s
Temperature range	- 40°C to + 85°C

10 years of product guarantee; 10 years of 90% power guarantee; 25 years of 80% power guarantee;

### Certificates

TÜV CE ISO 9001 including ASIG quality controls

### IV - Curves



### Dimensions

