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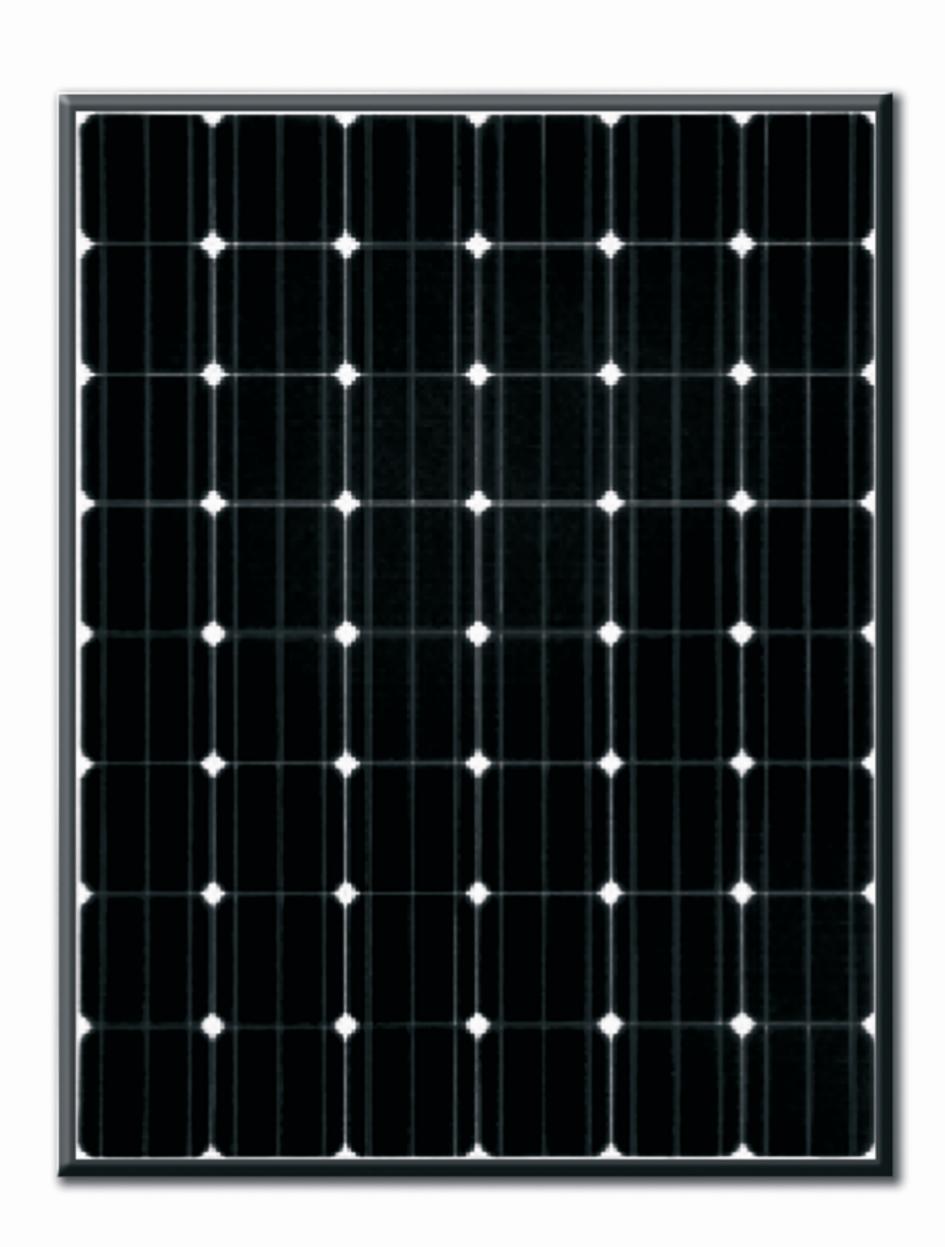
SUN MCB 48 / 195 - 205

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.

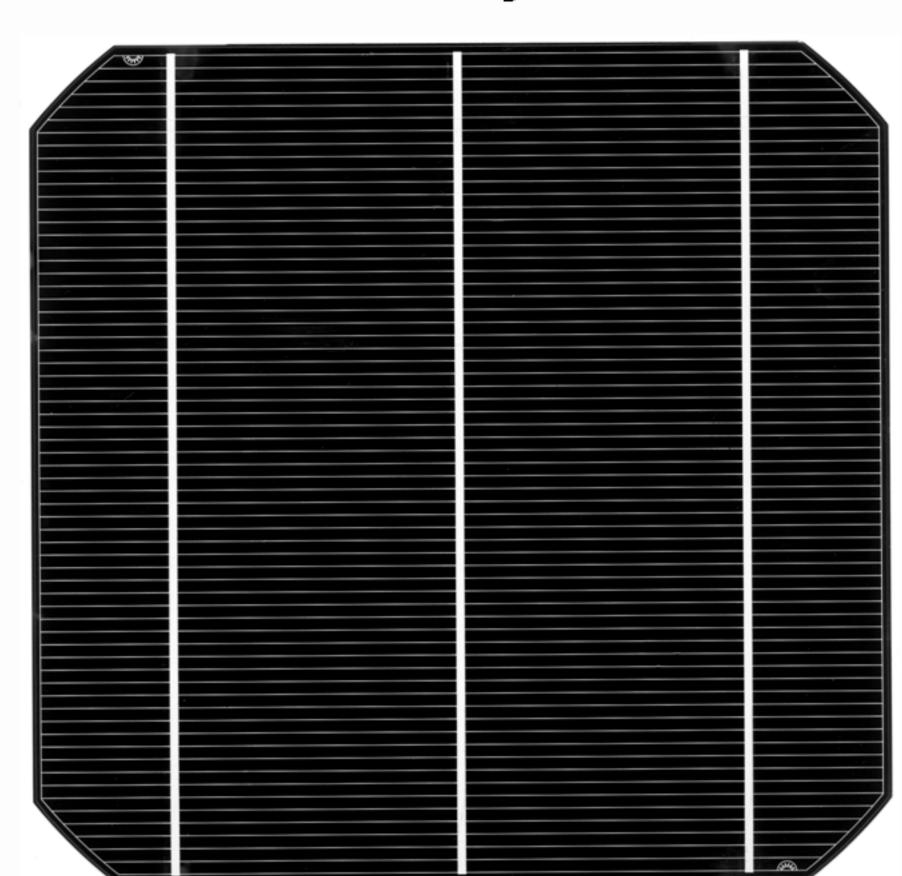
Tight powertolerance

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 205Wp 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	205	200	195	
Pmpp [W]	205 -0/+3%	200 -0/+3%	195 -0/+3%	
Voc [V]	30,0	29,9	29,7	
lsc [A]	8,86	8,78	8,71	
Vmpp [V]	24,2	24,1	23,9	
Impp [A]	8,47	8,30	8,16	
Module efficiency	15,69 %	15,31 %	14,92 %	
Maximum system voltage [V]	1000 V			
Voltage temperature coefficient	- 0.307% / K			
Current temperature coefficient	+ 0.039% / K	+ 0.039% / K		
Power temperature coefficient	- 0.423% / K			
Cells	•	6 x 8 pieces monocrystalline 156 mm x 156 mm		
Junction box	6 bypass-diod	les		
Cabel / Connector	1 x 4 mm² / N	1 x 4 mm² / M C 4		
Front glass	3,2 mm Safety	3,2 mm Safety glass		
Cell encapsulation	EVA	EVA		
Back sheet	Composite film	Composite film		
Frame	Black anodize	Black anodized aluminium profile		
Dimensions (LxWxH) / Weight	1320 x 990 x 50 mm / 15,8 kg			

The electrical data relates to standard test conditions [STC]

Max. operating condition

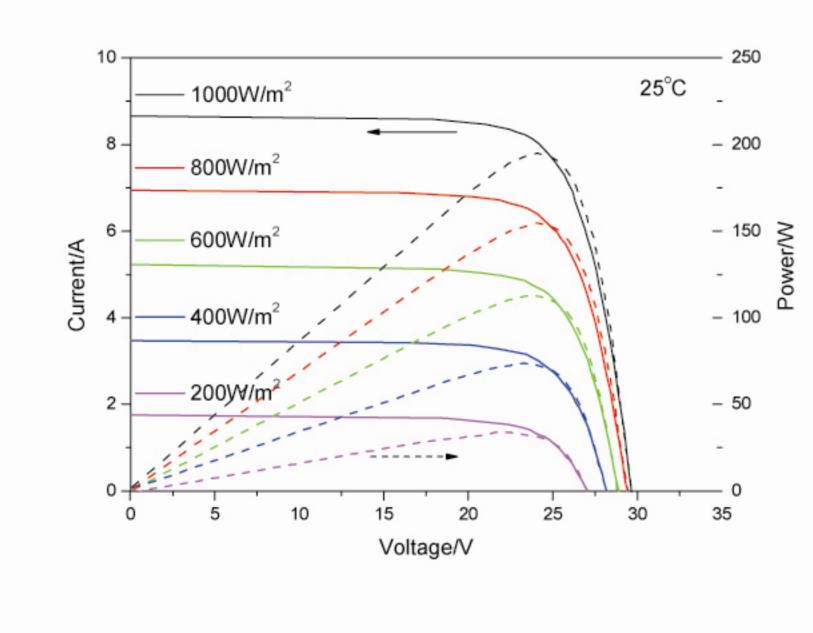
Maximum surface load capacity	Tested up to 5,400 Pa according to IEC 61215	
Hail	Max. diameter of 25 mm with impact speed of 23m/s	
Temperature range	- 40°C to + 85°C	

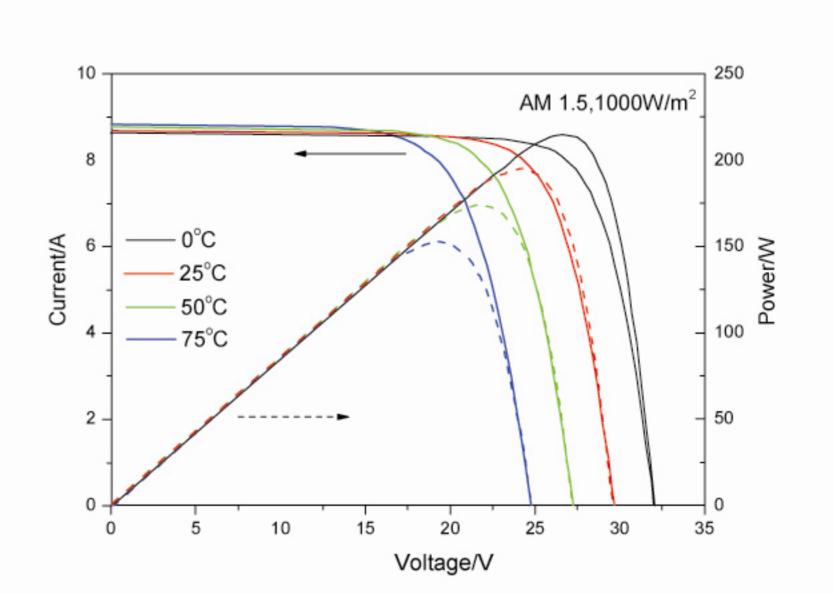
10 years of product guarantee; 10 years of 90% power guarantee; 25 years of 80% power guarantee;

Certificates

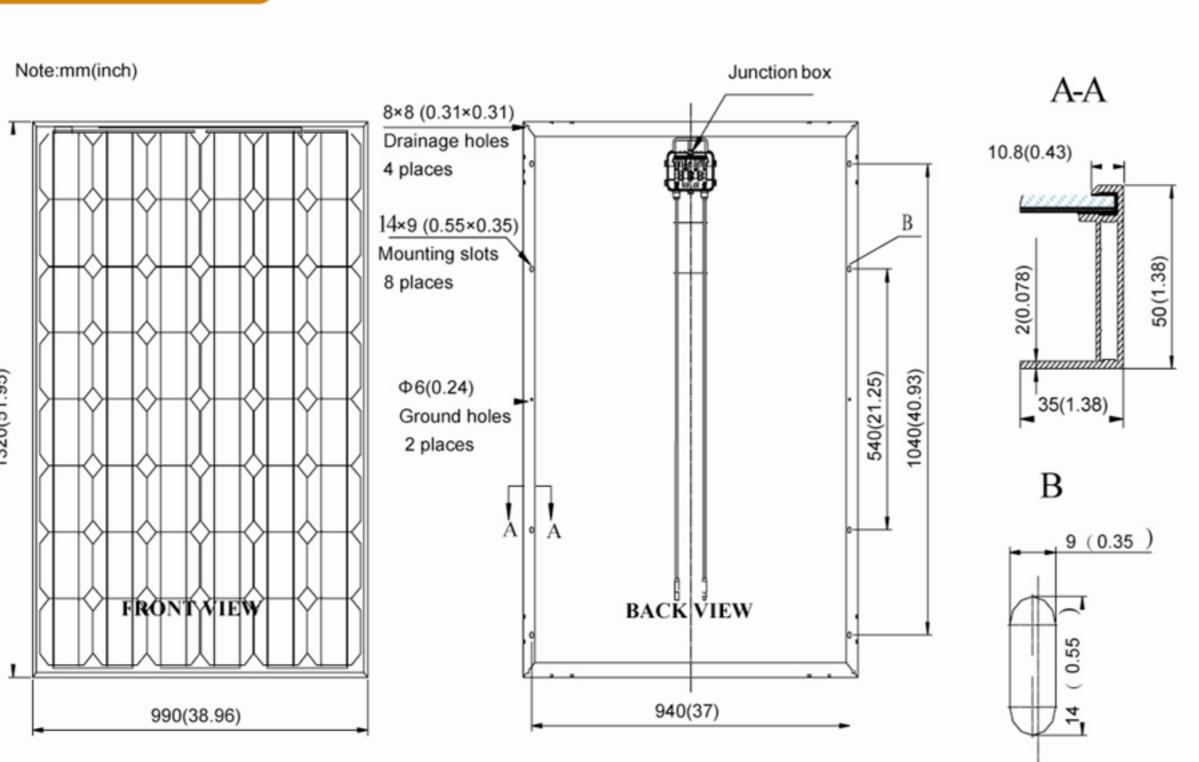
TÜV CE ISO 9001 including ASIG quality controls

IV - Curves





Dimensions



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