

Performance • Reliability
290 W/72 - 156 m

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Cost Effective: Optimum Price-Performance Balance

Made in Germany

Built to German automotive industry's highest quality standards

Guaranteed high energy yields – high efficiency cells, max power tolerance of 2,5% and optimum edge distances

Durable and reliable – 25-years performance warranty*

* under special conditions of asola GmbH

Reliable Construction:

State of the art, crystalline high efficiency cells 156 mm

Encapsulation materials – made by world wide market leader

Metallic junction boxes for highest security and excellent cooling of by-pass diodes

Best of class cables and plug system

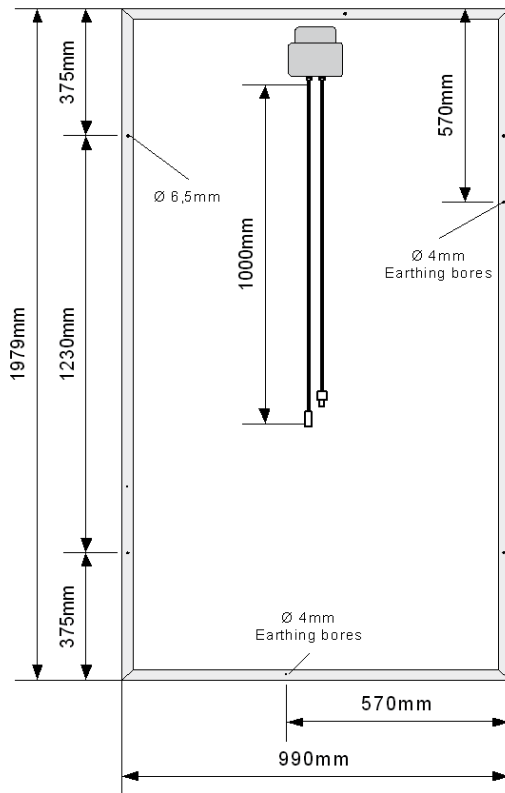
50 mm aluminum frame for mechanical load of 5.400 Pa
acc. IEC 61215 / UL 1703

Quality Beyond Industry Standards

We exceed industry test standards by a factor of 2 to 3.

Available from your specialist dealer:

Technical data* 290 W/72 -156 m



Module technology

Glass foil laminate with 72 single crystalline high efficiency solar cells "6"+
weight 26,6 kg
Low iron, tempered, safety solar glass
Encapsulation with UV stable, super transparent ethylene vinyl acetate
Certified Junction box: asola AL
Cable/ plug: MC4 4 mm² , alternative offers on request
Special anodized aluminum frame, 50 mm screwed for max. Mechanical load 5400 Pascal
Certified according to DIN IEC 61215 and IEC 61730

Output class ** (W)	285	290	295	300
Open-circuit voltage U_{OC} (V)	44,45	44,71	44,93	45,36
Rated voltage U_{MPP} (V)	37,22	37,44	37,44	37,44
Short-circuit current I_{SC} (A)	8,26	8,38	8,45	8,55
Rated current I_{MPP} (A)	7,70	7,83	7,90	8,10
tolerances	+ 5 W + 1,8%	+ 5 W + 1,7%	+ 5 W + 1,7%	+ 5 W + 1,7%

Partial load at 300w/m²

Open-circuit voltage U_{OC} (V)	41,97	42,22	42,42	42,83
Rated voltage U_{MPP} (V)	36,77	36,95	36,95	36,95
Short-circuit current I_{SC} (A)	2,48	2,51	2,43	2,56
Rated current I_{MPP} (A)	2,31	2,35	2,29	2,43

Temperature coefficients

$P_M = -0,48\%/K$	$V_{OC} = -0,36\%/K$	$I_{SC} = +0,034\%/K$
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* Typical data

**The calibration laboratories are securing an absolute accuracy of $\pm 2\%$ for asola's calibration modules