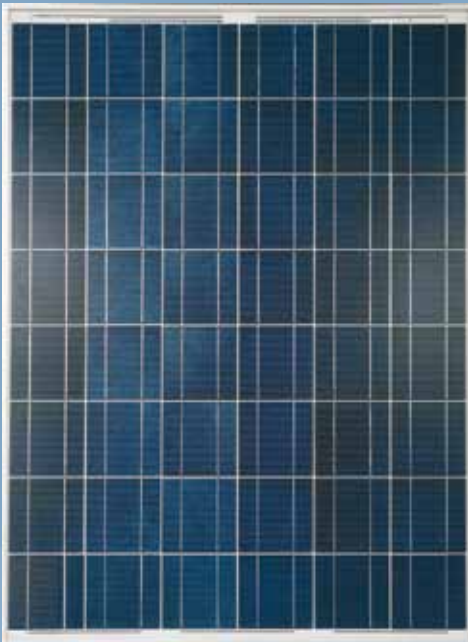


Performance • Reliability
185 W/48 - 156 p/2

asola GmbH
Konrad-Zuse-Straße 25
99099 Erfurt / Germany
Fon +49 (0) 361 • 24 14 25 - 10
Fax +49 (0) 361 • 24 14 25 - 90

www.asola-power.com
info@asola-power.com



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

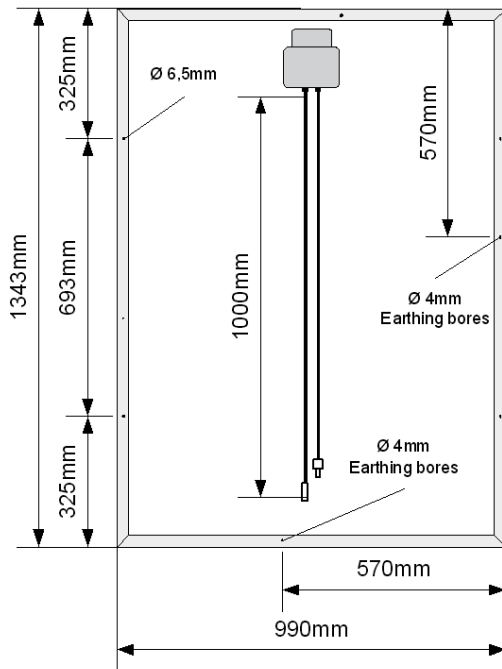
Quality Beyond Industry Standards

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

Available from your specialist dealer:

Technical data*

185 W/48-156 p/2



Module technology

Glass foil laminate with 48 poly crystalline
high efficiency solar cells "6"+

weight 21,4 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)	180	185	190
Open-circuit voltage U_{OC} (V)	29,52	29,76	29,76
Rated voltage U_{MPP} (V)	24,00	24,00	24,00
Short-circuit current I_{SC} (A)	8,05	8,15	8,47
Rated current I_{MPP} (A)	7,57	7,80	8,02
tolerances	+ 5 W + 2,8 %	+ 5 W + 2,7 %	+ 5 W + 2,6 %

Partial load at 300w/m²

Open-circuit voltage U_{OC} (V)	27,73	27,96	27,96
Rated voltage U_{MPP} (V)	23,54	23,54	23,54
Short-circuit current I_{SC} (A)	2,41	2,44	2,54
Rated current I_{MPP} (A)	2,27	2,34	2,41

Temperature coefficients

$P_M = -0,43 \text{ %/K}$	$V_{OC} = -0,33 \text{ %/K}$	$I_{SC} = +0,054 \text{ %/K}$
---------------------------	------------------------------	-------------------------------

* Typical data

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