

# Solara S-series

## Top Quality for Professional Applications



### Solar modules of SOLARA® S-Series

Solar modules with high-efficiency solar cells. Textured surface reduces sunlight reflections and provides highest output. Weather and water proof foil provide highest life expectancy even under extreme climatic conditions: ice, hail, snow, storm, extreme humidity as well as heat and cold have no effect on the solar modules.

### High efficiency and performance guarantee

The efficient silicon technology and the anti-reflection-layer permit optimal efficiency. This guarantees high performance also during low irradiation and months with diminished light. The solar modules of the SOLARA® S-Series have up to 26 years Solara guarantee.

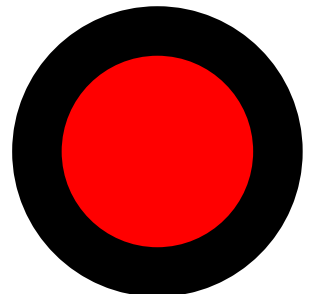
### Quality control

Each solar module is individually measured during and after the manufacturing process under highest quality and ISO conditions. Every module is tested under STC conditions. All module have an unchangeable serial number and are certified.

### Mounting

The modules of the SOLARA® S-Series have a robust and seawater resistant aluminium frame (except SM220K). The frame profile provides stability and installation ability. Also, the solar modules (except SM220K) have a waterproof junction box. The SOLARA® SM220K has 1m solar cable already installed. The solar module has a flat plastic frame and can be glued even onto surfaces.

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## Technical Data S-Series

Art.-Nr.	SM50S	SM100S	SM200S	SM220K	SM220S/M55	SM340S	SM500S
Durchschnittlicher Tagesertrag im Sommer average daily output in summer (Germany)	48 Wh/d	108 Wh/d	220 Wh/d	220 Wh/d	220 Wh/d	340 Wh/d	500 Wh/d
Maximale Leistung (Pmax) peak power Pmax	12 Wp	27 Wp	55 Wp	55 Wp	55 Wp	85 Wp	125 Wp
Systemspannung system voltage	12 V	12 V	12 V	12 V	12 V	12 V	12 V
Spannung Maximalleistung voltage at peak power	18,4 V	17,4 V	17,6 V	17,6 V	17,6 V	18 V	17,5 V
Leerlaufspannung open circuit current	22,4 V	21,8 V	21,3 V	21,3 V	21,3 V	21,9 V	21,7 V
Strom bei Maximalleistung current at peak power	0,55 A	1,55 A	3,13 A	3,13 A	3,13 A	4,72 A	7,14 A
Kurzschlussstrom short circuit current	0,63 A	1,75 A	3,4 A	3,4 A	3,4 A	5,15 A	8,0 A
Anzahl der Solarzellen number of cells	38 Stk./pcs.	36 Stk./pcs.	36 Stk./pcs.	36 Stk./pcs.	36 Stk./pcs.	36 Stk./pcs.	36 Stk./pcs.
Abmessung der Solarzellen cell dimension	103x21 mm	103x51,5 mm	103x103 mm	103x103 mm	103x103 mm	125x125 mm	156x156 mm
Maße in mm (LxBxH) dimension in mm	468x250x35	540x457x35	997x457x35	1040x450x5	1330x350x35	1237x557x35	1500x680x35
Höhe mit Anschlussdose height incl. junction box	35 mm	35 mm	35 mm	15 mm	35 mm	35 mm	35 mm
Anschluß (Kabel : rot +, schwarz -) connection (cable : red +, black-)	Dose/ junction box	Dose/ junction box	Dose/ junction box	1m Kabel/cable 2x2,5 qmm	Dose/ junction box	Dose/ junction box	Dose/ junction box
Gewicht/Glasstärke weight/thickness of glass	1,3 kg/3,2 mm	3,0 kg/3,2 mm	5,9 kg/3,2 mm	4,6 kg/3,2 mm	5,4 kg/3,2 mm	7,9 kg/3,2 mm	12,1 kg/3,2 mm
SOLARA-Garantie SOLARA guarantee	26 J./yrs.	26 J./yrs.	26 J./yrs.	2 J./yrs.	26J./yrs.	26J./yrs.	26 J./yrs.

The following tests were realized successfully: electrical isolation, temperature stability, humidity stability, heat stability, salt stability, static impact. According to IEC 61215

All data, tests and certificates can vary depending on module type

According to STC (Standard Test Condition), AM 1.5, 1kW/m<sup>2</sup>, 25°C, Pmin – 10%. Subject to changes due to continuing development.

Produced according to German and international standards:



Schutzklasse II



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[www.alphatrononline.com](http://www.alphatrononline.com)

Alphatron Pacific Ltd. T: +64 9 414 5520, F: +64 9 414 5580, E: sales@alphatron.co.nz  
Alphatron Australia T: 180 148 793, F: 1800 888 334, E: sales@alphatron.com.au

