



S-Series

12 Wp ■ 27 Wp ■ 55 Wp ■ 60 Wp ■ 90 Wp ■ 130 Wp

Premium quality – for professional use

- Solar modules with 36 high-performance solar cells
- High performance also during low irradiation and months with diminished light
- Passed salt spray test according to DIN EN ISO 9227-NSS
- Sturdy, seawater-resistant aluminium frame
- Large, waterproof junction box equipped with spring-type terminals
- Weather and water proof foil provides highest life expectancy even under extreme climatic conditions
- Manufactured in the CENTROSOLAR Sonnenstromfabrik, certified according to DIN EN ISO 9001:2008 und ISO 14001:2009
- 5 years product warranty*, up to 26 years performance guarantee*



SOLARA[®]
by CENTROSOLAR

**Made in
Germany**

* You can find detailed information in the Centrosolar AG warranty conditions.



- Qualified, IEC 61215
- Safety tested, IEC 61730
- Periodic Inspection



Salt spray test
according to
DIN EN ISO 9227-NSS



SOLARA S-Series

Output under STC*

Module type	S50M36 Ultra SM50S	S100M36 Ultra SM100S	S220M36 Ultra SM220S/M55	S240P36 Ultra SM240S	S365P36 Ultra SM365S	S520P36 Ultra SM520S	
Daily output in summer (Germany)	48	108	220	240	365	520	Wh/d
Rated output (P _{mpp})	12	27	55	60	90	130	Wp
Short-circuit current (I _{sc})	0.63	1.75	3.40	4.00	5.70	8.20	A
Open-circuit voltage (U _{oc})	22.4	21.8	21.3	21.9	21.9	21.9	V
Voltage (U _{mpp})	18.4	17.4	17.6	17.4	17.4	17.4	V
Current (I _{mpp})	0.55	1.55	3.10	3.70	5.20	7.50	A
Module efficiency η	10.2	10.9	11.8	12.4	12.4	12.7	%

* Under standard testing conditions STC (1,000 W/m², spectrum AM 1.5, cell temperature 25 °C)

Output at 800 W/m², NOCT, AM 1.5

Rated output (P _{mpp})	8.65	22.4	44.9	51.5	72.0	102.9	Wp
Short-circuit current (I _{sc})	0.55	1.42	2.84	3.30	4.60	6.50	A
Open-circuit voltage (U _{oc})	21.5	21.5	21.5	21.5	21.5	21.5	V
Voltage (U _{mpp})	17.0	17.0	17.0	17.0	17.0	17.0	V
Current (I _{mpp})	0.51	1.32	4.20	3.00	4.20	6.00	A

Dimensions and weight

Module dimensions (LxWxH)	475x257x40	540x457x40	1330x350x40	710x680x40	1070x680x40	1500x680x40	mm
Weight	1.3	3.0	5.4	5.7	8.6	12.1	kg
Cell dimensions	103 x 21	103 x 51,5	103 x 103	156 x 78	156 x 109	156 x 156	mm

Thermal properties

TK P _{mpp}	-0.45	%/K
TK U _{oc}	-0.36	%/K
TK I _{sc}	0.028	%/K
NOCT	46	°C

Other technical data

System voltage	12	V
Reverse current carrying capacity IR	12	A
Measuring accuracy P _{mpp} at STC	± 5	%

Materials used

Number of cells	36
Front	tempered solar glass
Junction box	IP65 with spring-type terminals

As of 08/2011. Errors and omissions excepted. Technical changes reserved.

Your CENTROSOLAR Partner:

CENTROSOLAR AG
Stresemannstraße 163
22769 Hamburg
GERMANY
Tel.: +49 40 391065-0
hamburg@centrosolar.com