



Power S-Series

110 W ■ 140 W

Maximum performance – on smallest surface

Improved appearance:

- Elegant and attractive design with black finishing
- Slim shape – for a wide range of applications

Long lifetime even under extreme conditions:

- 3.2 mm, scratch-resistant thermally hardened thin glass
- Excellent mechanical load resistance thanks to its torsion-resistant module frame
- Especially developed for permanent operation at extreme heat as well as high humidity

Performance guarantee*:

- Highest day yield through the use of monocrystalline Back-Contact cells with 22% of cell efficiency
- Best low-light behaviour
- 5 years product warranty and up to 26 years performance warranty
- Manufactured exclusively in Germany:
in the CENTROSOLAR Sonnenstromfabrik, certified according to DIN EN ISO 9001:2008, ISO 14001:2009 and OHSAS 18001:2007



SOLARA[®]
by CENTROSOLAR

Made in
Germany

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

Slight colour variation of modules is possible due to specific conditions in production.



SOLARA Power S-Series

Performance under STC*

Module type	S440M36 Ultra	S565M44 Ultra	
Daily output in summer in Germany (Ø)	440	565	Wh/d
Nominal power (P _{mpp})	110	140	Wp
Short-circuit current (I _{sc})	6.02	6.14	A
Open-circuit voltage (U _{oc})	24.06	29.63	V
Voltage (U _{mpp})	20.25	25.10	V
Current (I _{mpp})	5.43	5.58	A
Efficiency (η)	16.5	16.7	%

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

Power at 800 W/m², NOCT, AM 1,5

Module type	S440M36 Ultra	S565M44 Ultra	
Nominal power (P _{mpp})	81.27	103.52	Wp
Short-circuit current (I _{sc})	4.88	4.97	A
Open-circuit voltage (U _{oc})	22.46	27.66	V
Voltage (U _{mpp})	18.60	23.05	V
Current (I _{mpp})	4.37	4.49	A

Dimensions and weight

Dimensions (LxW)	1237 x 557	1500 x 557	mm
Weight	7.9	9.9	kg

Thermal properties

TK P _{mpp}	-0.38	%/K
TK U _{oc}	-0.28	%/K
TK I _{sc}	0.057	%/K
NOCT	46 ± 2	°C

Other technical specifications

Class range (positive power classification)	-0/+4.99	W
Max. system voltage	12	V
Reverse current carrying capacity IR	12	A
Measuring accuracy P _{mpp} at STC	± 5	%
Frame height	40	mm

Material used

Number of cells	36 (S440M46 Ultra) 44 (S565M44 Ultra)
Cell dimensions	125 x 125 mm
Cell technology	monocrystalline Back-Contact cells
Front side	tempered solar glass, glass thickness 3.2 mm
Module frame	black powder coated
Junction box	IP65 with spring-type terminals

As of 08/2013. 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