



ULTRA – S Series

110 W ■ 140 W



Maximum performance – on smallest surface

Improved appearance:

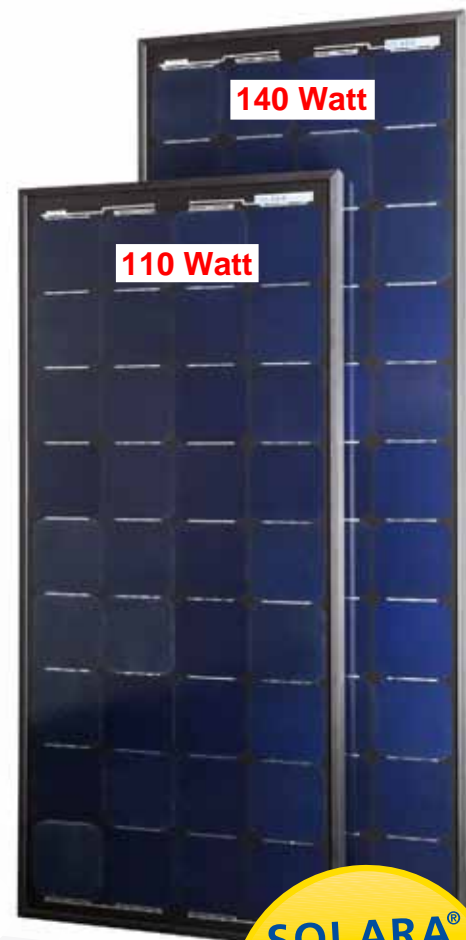
- Elegant and attractive design with black finishing
- Slim shape – for a wide range of applications

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



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

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



Performance under STC*

Module type,	S440M36 Ultra	S565M44 Ultra
Daily output in Watt/Hrs per day (Estimate; Summer - Full-time load)	440 Watt-Hrs/day	565 Watt-Hrs/day
Minimum peak power (Pmpp)	110 W	140 W
Short-circuit current (Isc)	6.02 A	6.14 A
Open-circuit voltage (Voc)	24.06 V	29.63 V
Voltage at peak power (Vmpp)	20.25 V	25.10 V
Current at peak power (Impp)	5.43 A	5.58 A
Cell Efficiency (η)	22.5%+	22.5%+

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



Dimensions and weight

Dimensions (LxW)	49" x 22"	59" x 22"
Weight	17.4 lb	21.2 lb

Temperature Coefficients

P Max	-0.38 %/C
Voc	-0.28 %/C
Isc	+0.057 %/C
Nominal Operating Cell Temperature (NOCT)	46 ± 2 C

Other technical specifications

Power rating tolerance	-0/+4.99 W
Nominal system voltage	12 V
Reverse current carrying capacity IR	12 A
Measuring accuracy Pmpp at STC	± 5 %
Frame height	1.6"

Material used

Number of cells	36 (S440M46 Ultra) 44 (S565M44 Ultra)
Cell dimensions	5" x 5"
Cell technology	SunPower® Monocrystalline Back-Contact cells
Front side	tempered solar glass, glass thickness 3.2 mm
Module frame	black anodized
Junction box	IP65 with spring-type terminals

As of 08/2013. Errors and omissions excepted. Technical changes reserved.

Your CENTROSOLAR Partner:

North American distributors:



Coastal Climate Control, Inc.

www.coastalcoolaids.com info@coastalcoolaids.com

301-352-5738 - Annapolis MD USA