



M-Series

Premium Quality for Professional Use

Technology and Design:

- Maximum stability through stainless steel mounting plate
- Thanks to innovative cell-chaining technique semi-flexible (up 3%) mountable
- Foot traffic at a fixed, fully-scale application on firm ground
- Teflon-like extremely resistant protective film on front and back
- Particularly flat and glued screwed cable outlet with strain relief
- Unique serial number clearly on the front of the module

Best performance with the highest quality:

- Extremely high yields through the use of crystalline high performance cells
- Maximum daily yield by additional single cells
- Powerful low-light performance – High yields even under cloudy and partially shaded conditions
- External cell protector with bypass diodes offers protection against cell overheating (Hot-Spots) is included
- Manufactured exclusively in Germany



SOLARA[®]
by CENTROSOLAR

12W ■ 23 W ■ 34 W ■ 45 W ■ 68 W

Made in
Germany



35 W ■ 50 W ■ 70 W

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 M-Series

Technical Data M-Series (36 cells)

Module type	S40M36 Marine	S80M36 Marine	S120M36 Marine	S160M36 Marine	S225M36 Marine
Maximum power (P _{max})	12 Wp	23 Wp	34 Wp	45 Wp	68 Wp
Average daily output in summer (Germany)	48 Wh/d	92 Wh/d	136 Wh/d	180 Wh/d	272 Wh/d
System voltage	12 V	12 V	12 V	12 V	12 V
Voltage a maximum power	19 V	19 V	19 V	19 V	19 V
Open circuit voltage	22,6 V	22,6 V	22,6 V	22,6 V	22,6 V
Current at maximum power	0,63 A	1,21 A	1,78 A	2,36 A	3,67 A
Short circuit current	0,7 A	1,3 A	1,9 A	2,5 A	3,8 A
Number of cells	36	36	36	36	35
Dimension in mm (L x W x H)	445 x 267 x 2	440 x 460 x 2	590 x 460 x 2	756 x 460 x 2	800 x 646 x 2
Weight	1,3 kg	2,0 kg	3,1 kg	3,75 kg	5,4 kg
Hotspot protector	No	No	Yes	Yes	Yes

Technical Data M-Series (42 cells)

Module type	S140M42 Marine	S200M42 Marine	S280M42 Marine
Maximum power (P _{max})	35 Wp	50 Wp	70 Wp
Average daily output in summer (Germany)	140 Wh/d	200 Wh/d	200 Wh/d
System voltage	12 V	12 V	12 V
Voltage a maximum power	19,7 V	21,2 V	19,5 V
Open circuit voltage	25,7 V	25,7 V	25,7 V
Current at maximum power	1,78 A	2,36 A	3,84 A
Short circuit current	1,92 A	2,57 A	3,84 A
Number of cells	42	42	42
Dimension in mm (L x W x H)	471 x 660 x 2	592 x 660 x 2	823 x 660 x 2
Weight	3,5 kg	4,4 kg	5,9 kg
Hotspot protector	Yes	Yes	Yes

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

According to STC (Standard), 1000 W/m², Spectrum AM 1.5, Cell temperature 25 °C, Pmin: +/-5%. Subject to change due to permanent development.

As of 11/2013. Errors and omissions excepted. Technical changes reserved.

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