

## SOLARA POWER M-SERIES

# Highest performance with top quality

**UNREACHED YIELDS DUE TO  
HIGHEST CELL EFFICIENCY**

**5 YEARS PRODUCT WARRANTY**

### APPEARANCE AND DESIGN

- Elegant and attractive black design
- Extremely flat shape with aluminum sandwich plate
- Innovative cell connectors allow various installations such as bimini-top
- High stability even to walk on
- Already prepared cable gland in the carrier plate
- Cable gland position ideally positioned for elevating-roofs

### MAXIMUM POWER EVEN UNDER EXTREME CONDITIONS

- Highest efficiency ensured by the use of monocrystalline back-contact cells with 22 % efficiency
- Increased tension thanks to additional single cells
- High output voltage due to additional solar cells
- Best low-light behavior – high yields even under diffuse irradiation
- Especially developed for permanent operation at extreme heat as well as high humidity
- Equipped with an UV resistant solar cable, seawater proof cable outlet and mounting holes
- External cell protector with bypass diodes offers protection against cell overheating



### WE GUARANTEE

- 5 years product warranty\*
- Made in Germany
- Unchangeable serial number at the front side

\* Full terms of guarantee: [www.solara.de](http://www.solara.de)



**MORE CELLS FOR  
MAXIMUM OUTPUT**

## PERFORMANCE AT STC\*

Type	S440M34 Marine	S460M35 Marine	S560M43 Marine
Daily output in summer in Germany (Ø) Wh/d	440	460	560
Rated output (Pmpp) Wp	110	115	140
Short-circuit current (Isc) A	6.30	6.30	6.30
Open-circuit voltage (Uoc) V	23.30	24.00	29.50
Voltage (Ump) V	18.90	20.30	24.30
Current (Impp) A	5.80	5.80	5.80

## Dimensions and weight

Dimensions (L x B x H) mm	988 x 659 x 3	1250 x 543 x 3	1500 x 543 x 3
Weight kg	4.2	4.4	5.2
Cell dimensions mm	125 x 125	125 x 125	125 x 125

## Thermal properties

TK Pmpp %/K	-0.38
TK Uoc %/K	-0.28
TK Isc %/K	0.057
NOCT °C	46 ± 2

## Other technical data

System voltage	24 V
Reverse current carrying capacity IR	12 A
Measuring accuracy Pmpp at STC	± 5 %
Module thickness	3 mm

## Material used

Cell technology	mono crystalline with backcontact
Front side/back side	extremely resistant protective Nowoflon film on front and back, sealed all along the edge
Cable outlet	Small, flat, robust, sealed, screwed seawaterproof cable outlet
Hotspot protector (external)	attached to all modules

Date 05/2016. Errors and omissions excepted. Technical changes reserved.



\*Performance at STC, Standard Testing Conditions: 1000W/m², AM 1.5, cell temperature 25° C