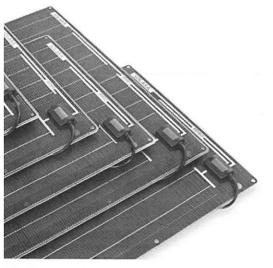


SOLARA M-Series

EXTREMELY FLAT, WALKABLE AND SEMI-FLEXIBLE

- ☐ Stability and maximum heat dissipation due to innovative aluminium-sandwich support plate
- Additional solar cells for efficient charging
- All materials withstand extreme heat, high humidity, sea and salt water
- ¬ Teflon-type extremely resistant protective film on front and back
- → Flat, glued and screwed cable outlet with strain relief
- → Cell protector with external protection diodes included
- □ Cable lead-through already prepared in the carrier plate
- 对 Manufactured exclusively in Germany

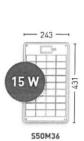


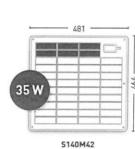


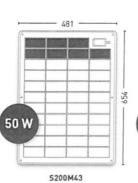




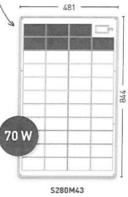


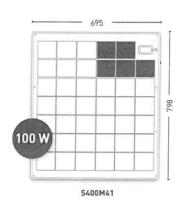






Extra cells for efficient charging!





Daily output in summer in Germany (Ø) Wh/d	FO				S400M41
end carbat mi parimiter in permising (b) thing	50	140	200	280	400
Rated output¹ (Pmpp) Wp	15	35	50	70	100
Short-circuit current (Isc) A	0.72	1.44	2.15	2.85	4.29
Open-circuit voltage (Uoc) V	24.48	28.56	29.24	29.24	27.88
/oltage(Umpp) V	20.88	24.36	24.94	24.94	23.87
Current (Impp) A	0.69	1.38	2.05	2.72	4.10
No. of cells	36	42	43	43	41

Dimensions and weight					
Dimensions (L x W x H) mm	431 x 243 x 4	464 x 481 x 4	654 x 481 x 4	844 x 481 x 4	798 x 695 x 4
Weight kg	0.9	1.7	2.2	2.8	3.7
Cell dimensions mm	52 x 35	104 x 35	104 x 52	104 x 69	104 x 104

Thermal properties

Thermal properties		Used materials	
TK Pmpp %/K	-0.45	Cell technology	Monocrystalline cells 2 of these
TK Uoc %/K	-0.36	Front/back	ETFE front and back side foil, welded at the edge
TK Isc %/K	0.03	Cable outlet	Solid, small, flat, seawater-tight, glued and screwed
NOCT °C	46 ± 2	Hotspot protector (external)	Enclosed with S200M43, S280M43 and S400M41

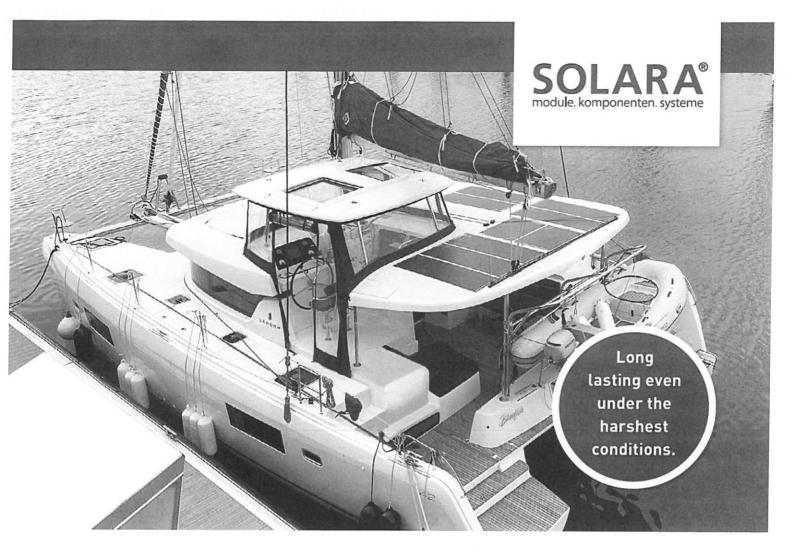
More technical data

Reverse current in toadability	IZA
Measuring accuracy Pmpp at 5	5TC ± 5 %
Operating temperature range	-40°C to +85°C





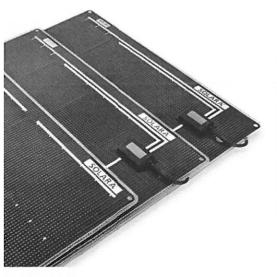




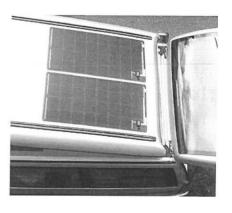
SOLARA Power M-Series

HIGHEST DAILY YIELDS BY SUNPOWER CELLS

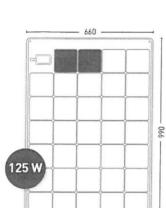
- → Solar cells with over 23% efficiency
- Additional solar cells for efficient charging
- → Highest yields in every season due to excellent low-light performance even in diffused light.
- 7 Designed and manufactured for permanent use on water and on land
- All materials withstand extreme heat, high humidity, sea and salt water
- ⊼ External cell protector with protection diodes included
- □ Extremely flat module construction with aluminium sandwich support plate
- → Flat, glued and screwed cable outlet with strain relief
- → Fully walkable on firm ground
- □ Cable lead-through already prepared in the carrier plate
- → Manufactured exclusively in Germany



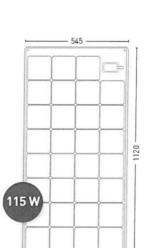




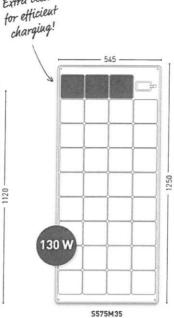




S555M34

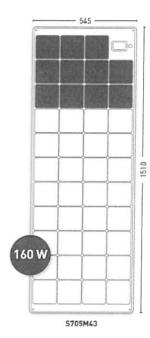


S515M31









PERFORMAN	CE
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PERFORMANCE					
Type	S555M34	S515M31	S575M35	S705M43	
Daily output in summer in Germany (Ø) Wh/d	555	515	575	705	
Rated output ¹ (Pmpp) Wp	125	115	130	160	
Short-circuit current (Isc) A	6.40	6.40	6.40	6.40	
Open-circuit voltage (Uoc) V	24.82	22.63	<mark>25</mark> .55	31.39	
Voltage(Umpp) V	21.08	19.22	21.70	26.66	
Current (Impp) A	6.04	6.04	6.04	6.04	
No. of cells	34	31	35	43	

Extra cells

 $^{1}\text{Performance}$ at STC, Standard Testing Conditions: 1000 W/m², AM 1,5, cell temperature 25° C

Dimensions and weight

Difficultions and weight				
Dimensions (L x W x H) mm	990 x 660 x 4	1120 x 545 x 4	1250 x 545 x 4	1510 x 545 x 4
Weight kg	4.2	3.6	4.4	5.2
Cell dimensions mm	125 x 125	125 x 125	12 <mark>5 x</mark> 125	125 x 125

Thermal properties

Thermal properties		Used materials	
TK Pmpp %/°C	-0.29	Cell technology	Sunpower, monocrystalline2itOfactaeSe
TK Uoc mV/°C	-1.74	Front/back	ETFE front and back side foil, welded at the edge
TK Isc mA/°C	2.90	Cable outlet	Solid, flat, seawater tight, glued and screwed
NOCT °C	46 ± 2	Connecting cable	3 m, 2 x 2.5 mm ²

More technical data

Reverse current in toadability	12 A
Measuring accuracy Pmpp at S	STC ± 5 %
Operating temperature range	-40°C to +85°C

PROVED **SOLARA®**

QUALITY



