



Extremely flat,  
fully accessible  
and semi-  
flexible.

## 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
- Maximum daily yield due to additional single cells
- 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
- Manufactured exclusively in Germany

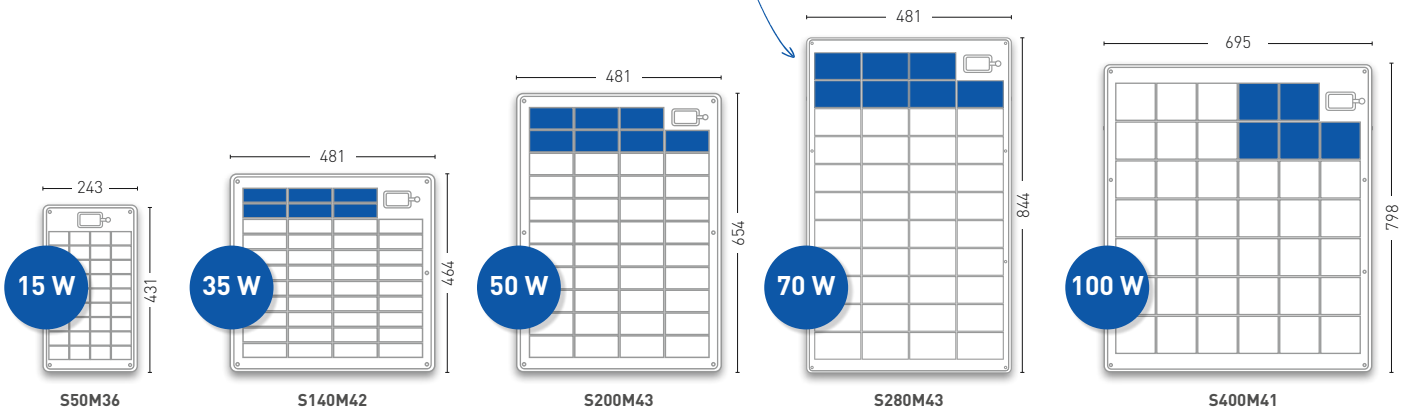




## SOLARA M-Series



Extra cells for efficient charging!



### PERFORMANCE

| Type                                       | S50M36 | S140M42 | S200M43 | S280M43 | S400M41 |
|--|--------|---------|---------|---------|---------|
| Daily output in summer in Germany (Ø) Wh/d | 50     | 140     | 200     | 280     | 400     |
| Rated output <sup>1</sup> (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   |
| Voltage(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      |

<sup>1</sup> Performance at STC, Standard Testing Conditions: 1000 W/m<sup>2</sup>, AM 1.5, cell temperature 25 °C

### 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                 | 0.7           | 1.5           | 2.0           | 2.6           | 3.5           |
| Cell dimensions mm        | 52 x 35       | 104 x 35      | 104 x 52      | 104 x 69      | 104 x 104     |

### Thermal properties

|             |        |
|-------------|--------|
| TK Pmpp %/C | -0.40  |
| TK Uoc %/C  | -0.32  |
| TK Isc %/C  | 0.06   |
| NOCT °C     | 46 ± 2 |

### Used materials

|                              |   |
|------------------------------|---|
| Cell technology              | Monocrystalline PERC                                    |
| Front/back                   | ETFE front and back side foil, welded at the edge       |
| Cable outlet                 | Solid, small, flat, seawater-tight, glued and screwed   |
| Hotspot protector (external) | Enclosed with S200M43, S280M43 and S400M41              |
| Connecting cable             | 3 m, 2 x 1.5mm <sup>2</sup> oder 3 x 1.5mm <sup>2</sup> |

### More technical data

|                                |                |
|--------------------------------|----------------|
| Measuring accuracy Pmpp at STC | ± 5 %          |
| Operating temperature range    | -40°C to +85°C |

