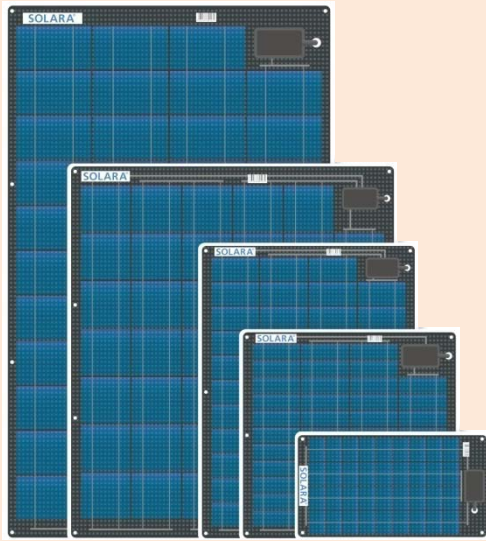


# SOLARA® — Marine Solar Panels

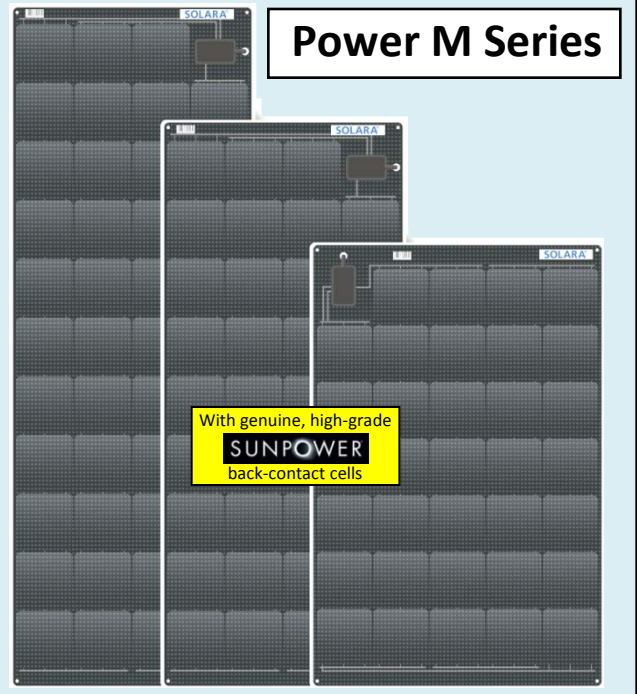
## Standard M Series



Panel shapes shown may not be representative. See dimensions overleaf.

- ✓ Wafer thin, with aluminum or stainless steel backing panel.
- ✓ Mount on decks, cabin tops, etc., and can be walked on.
- ✓ Will bend slightly for mounting on gently curved surfaces.
- ✓ Tough, rubber-like coating for maximum protection.
- ✓ Slip resistant, non-clouding, self-cleaning textured finish.
- ✓ 8' UV and ozone proof cable pre-wired into junction box.
- ✓ Low profile Junction Box, sealed and potted for life.
- ✓ Manufactured in Germany to high standards

## Power M Series

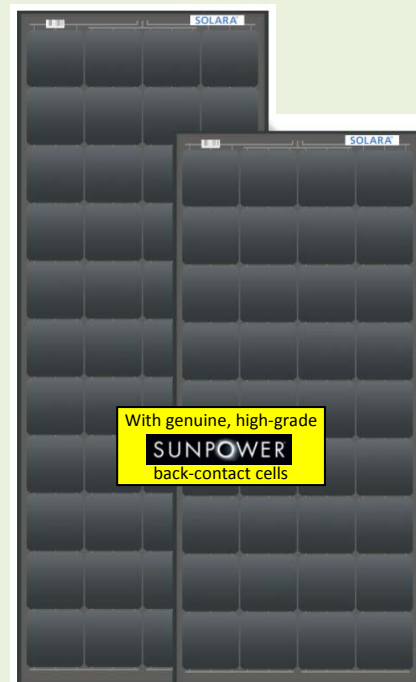


With genuine, high-grade  
**SUNPOWER**  
back-contact cells

- ✓ Designed and built for the harsh marine environment.
- ✓ Power M panels have genuine high-grade SunPower® monocrystalline cells with over 22.5% efficiency.
- ✓ SunPower® cells have high tolerance to shading.
- ✓ Resistant to vibration, ozone, salt, UV, and acid rain.
- ✓ Encapsulated, not laminated, with 5mm edge overlap.
- ✓ Cable hole blank next to Junction Box for neat installation.
- ✓ 5 year manufacturing defect warranty.

## Ultra Series Glass Panels

- ✓ Ultra Series panels use genuine high-grade SunPower® back contact monocrystalline cells with over 22.5% efficiency.
- ✓ Excellent heat, humidity and vibration resistance.
- ✓ SunPower® back-contact cells have high shade tolerance.
- ✓ Attractive and unobtrusive all-black finish.
- ✓ High torsional rigidity from double-walled aluminum frame.
- ✓ All-around flange and upgraded corner splines.
- ✓ SunPower® cells give superior performance in high temperature, low light, and low sun angle conditions.
- ✓ Scratch resistant, thermally hardened, low iron glass.
- ✓ Narrow width allows for multiple panel installations.
- ✓ Manufactured in Germany to high standards.
- ✓ Designed and built for the harsh marine environment.
- ✓ 5 year manufacturing defect warranty.



With genuine, high-grade  
**SUNPOWER**  
back-contact cells

	<b>Standard M Series</b>					<b>Power M</b>			<b>Ultra</b>	
<b>Watts (nom)<sup>1</sup></b>	12w	27w	41w	55w	80w	110w	115w	140w	110w	140w
<b>Volts at Peak Power<sup>1</sup></b>	19.2v	22.3v	22.9v	22.9v	21.8v	19.7v	20.3v	24.3v	20.2v	25.1v
<b>Amps at Peak Power<sup>1</sup></b>	0.61a	1.22a	1.81a	2.4a	3.62a	5.9a	5.9a	5.8a	5.43a	5.58a
<b>Watt/Hrs per day<sup>2</sup></b>	50	110	170	220	320	464	480	560	440	565
<b>Length</b>	17.0"	18.3"	25.7"	33.2"	31.4"	38.8"	49.1"	59.3"	49"	59"
<b>Width</b>	10.5"	13.9"	18.1"	18.1"	27.4"	26.8"	21.3"	21.3"	22"	22"
<b>Thickness</b>	1/8"	1/8"	1/8"	1/8"	1/8"	3/16"	3/16"	3/16"	1.6"	1.6"
<b>Weight</b>	2.0lb	3.7lb	4.8lb	6.2lb	8.1lb	11.7lb	9.7lb	11.2lb	17.4lb	21.2lb
<b>Cells - Number</b>	36	42	43	43	41	34	35	43	36	44
<b>Cells - Type</b>	Poly	Poly	Poly	Poly	Poly	SunPower	SunPower	SunPower	SunPower	SunPower
<b>Hot-Spot Preventer<sup>3</sup></b>	No	No	R	R	R	R	R	R	I	I
<b>Backing Plate<sup>4</sup></b>	AL	AL	AL	AL	AL	SS	AL	AL	Glass	Glass
<b>Controller - MPPT</b>	GV-5	GV-5	GV-5	GV-5	V75/15	V 75/15	V 75/15	V 75/15	V75/15	V75/15
<b>Controller - PWM</b>	SR60UL	SR60UL	SR60UL	SR60UL	SR170CX	SR170CX	SR170CX	SR170CX	SR170CX	SR170CX
<b>Solara Part Number</b>	S50P36	S110P42	S170P43	S220P43	S320P41	S440M34	S460M35	S560M43	S440M36	S565M44
						<b>SUNPOWER</b>			<b>SUNPOWER</b>	

- Notes: 1 - Nominal peak power. May differ slightly from panel to panel.  
 2 - For estimating purposes only. Daily watt/hour yield on a good solar day in Summer with MPPT controller and full load.  
 3 - Hot-Spot Preventer (By-Pass diodes). R = Remotely mounted in separate box. I = Integral to panel  
 4 - SS = Stainless Steel AL= Aluminum Di-Bond composite Glass = Glass panel with aluminum frame

### MPPT Controllers

### PWM Controllers



**Genasun GV-5**  
12v - Max O/P 5a  
Max panel - 65w



**Genasun GV-10**  
12v - Max O/P 10.5a  
Max panel - 140w



**Victron 75/15**  
12/24v - Max O/P 15a  
Max panel - 200w (12v)



**Blue Sky 3000i**  
12/24v - Max O/P 30a  
Max panel - 400w (12v)



**Solara SR60UL**  
12v - Max O/P 4a  
Max panel - 60w



**Solara SR170CX**  
12v - Max O/P 10a  
Max panel - 170w

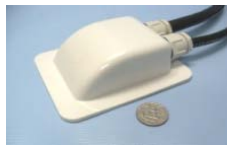


**Solara SR/CX Display**  
Remote Display for SR 170CX Controller.

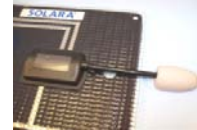
### Deck Glands



**Solara 1-Cable ABS Deck Gland**  
Single cable up to 1/2" (12mm) OD



**Solara 2-Cable ABS Deck Gland**  
Two cables up to 1/2" (12mm) OD



**ScanStrut Low Profile Deck Gland**  
For cables up to 1/4" (6mm) OD  
Use with cable supplied on Solara walk-on panels

### Cable



**4 Conductor Solar Cable**  
AWG 10 Multi-strand  
ABYC compliant



**3 Conductor Solar Cable**  
AWG 12 Multi-strand  
ABYC compliant



**Single Conductor Solar Cable**  
AWG 10 and AWG 12 Tinned  
Multi-strand, ABYC compliant

### Cable Sets



**Single Conductor Solar Cable Sets**  
Multi-strand, AWG 10 or 12, ABYC compliant  
With MC 4 connectors for Ultra panels

### Solar Monitor



**Watt Wizard Solar Monitor**



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