# SUNWARE SOLAR PANELS

MARLEC RENEWABLE POWER

Imagine, everytime you board your yacht, all the battery power is immediately available. Satellite navigation, computer, refrigerator, engine starting and all the on board comforts and safety features for a day cruise or trip on the high seas. You too can enjoy that convenience with the right solar battery charging system.

- SunWare panels are seawater resistant

SunWare solar panels have the highest power output to surface area ratio of semi-flexible panels on the market. Their efficient poly-crystalline cells convert sunlight to power into your battery so you can have cool drinks and keep the depth sounder running. They have been specifically designed for marine applications and so are built to the very highest quality standard of materials and workmanship. This is backed up by a 3 year warranty and can be seen in:

- The clear "EVA" surface which thermally seals the photovoltaic cells to protect them against water ingress and is bonded to the stainless steel substrate.
- The V4 marine grade stainless steel substrate that is totally resistant to atmospheric corrosion and salt water.
- The seawater-tight cable outlet and breakproof electrical contacts.
- The structured Teflon coated surface which can be walked on and is designed to reduce the possibility of slipping even in wet weather

## Product Features

- The SunWare panels are flexible up to 3% (=3cm over 1m) across their length so can be conveniently placed on curved surfaces
- Each panel is supplied with 3m of cable with an in-line diode to prevent reverse power from the battery in darkness
- Where fixing eyelets are included these are made of stainless steel, are 10mm in diameter and are suitable for screws, hooks or ropes
- SunWare's Marine range, shown right, include a durable rubberised surround edge protection
- Each solar panel is individually tested according to industry standards

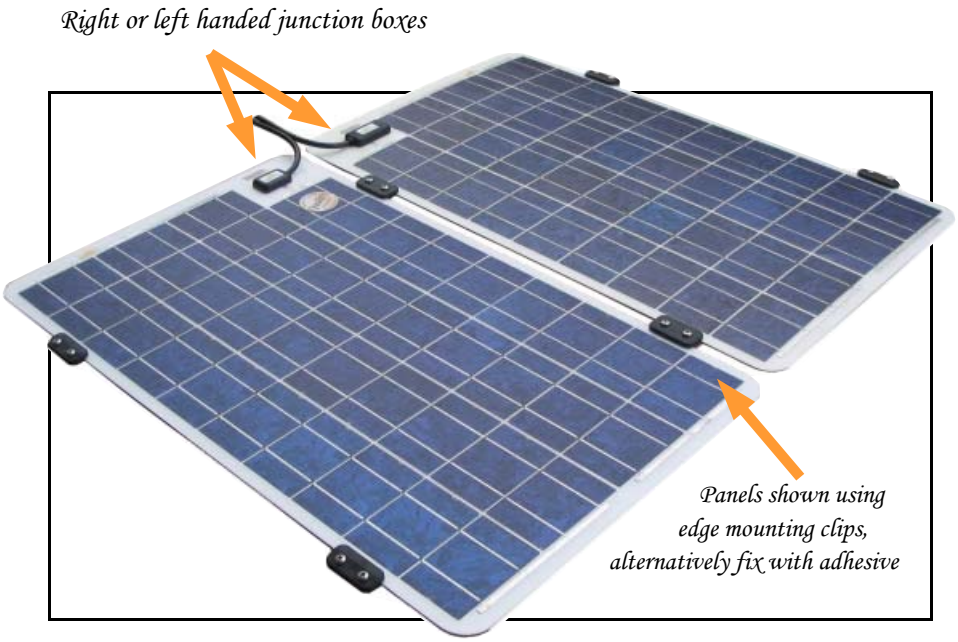
## Solar Regulator

- Use of a solar regulator is recommended to prevent battery overcharge

# COMPACT RANGE

The Compact range are truly space saving – compare the dimensions of the solar panels with the power output available from them. Compact panels are constructed using 39 cells and this brings two distinct advantages over 36 cell panels.

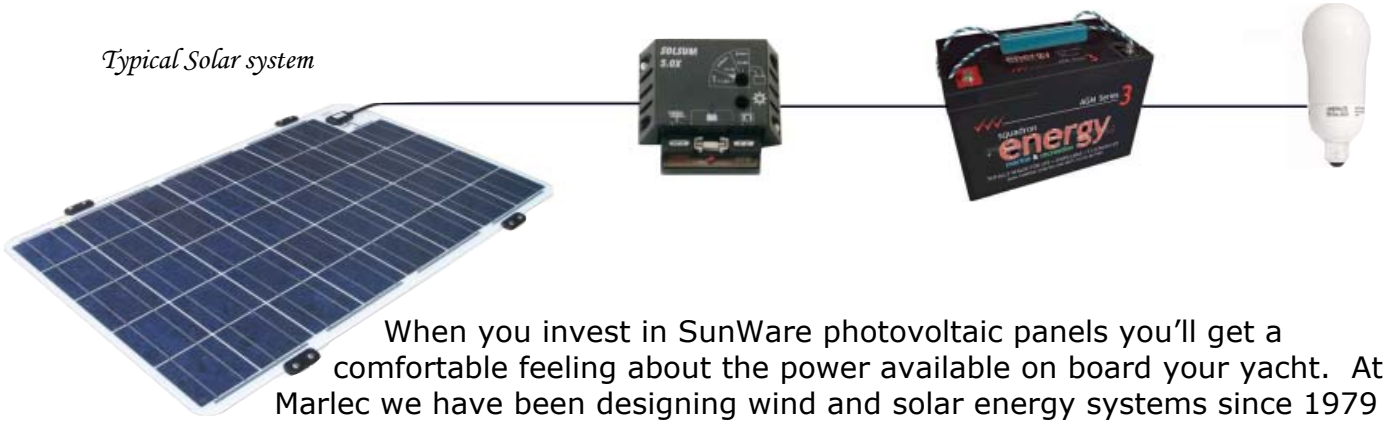
1. They run cooler and therefore deliver excellent performance in summer months and hotter climates.
2. The additional cells assist in compensating for lost voltage in overcast conditions delivering power for longer than a 36 cell panel.




The panels are designed to be glued to a smooth surface or affixed simply using the edge mounting clips available. These space saving Compact panels are ideal for multiple panel applications as they are available in both right and left handed cable exits so they can be conveniently placed alongside each other.

| | Marine Modules | | Compact Modules in Left & Right | |
|---|---|---|---|---|
| **Specifications** | **Marine 27W** | **Marine 30W** | **39 Watt L or R** | **59 Watt L or R** |
| **Part Numbers** | CA-10/60 | Not in stock | CA-10/63 (L)<br>CA-10/64 (R) | CA-10/65 (L)<br>CA-10/66 (R) |
| **Peak Output** | 27W | 30W | 39W | 59W |
| **Max. Current** | 1.96A @ 13.8V | 2.17A @ 13.8V | 2.83A @ 13.8V | 4.28A @ 13.8V |
| **Open Circuit Volts** | 20.9V | 23.2V | 22.0V | 22.0V |
| **Quantity of Cells** | 36 | 40 | 39 | 39 |
| **Dimensions** | 585x465mm | 640x465mm | 740x440mm | 910x625mm |
| **Weight** | 3.2 Kg | 3.2 Kg | 4.5 Kg | 6.7 Kg |

*Typical Solar system*




When you invest in SunWare photovoltaic panels you'll get a comfortable feeling about the power available on board your yacht. At Marlec we have been designing wind and solar energy systems since 1979 for marine and land based battery charging applications and we would be pleased to discuss your specific requirements. Call us today for professional advice!

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