

# MERLIN SOLARPLEX FLEXI PANELS

Known for their flexibility, durability and light weight, Merlin's SolarPlex panels are perfect for boat decks, campervans, and motorhomes.

With industry-leading guarantees, Merlin's SolarPlex range offer exceptional performance in a lightweight and low profile solar panel.

With an EFTE top layer, Merlin SolarPlex panels have a self-healing capacity where, in the event that the panel comes into contact with branches etc, any slight abrasions are healed within a few hours. Similarly, the EFTE top layer provides an anti-slip surface, allowing the panels to be walked on with soft deck shoes, particularly useful if the panel is fitted to a boat deck.

Certified and tested to ASTM B117-ISO 9227 standards in an independent laboratory, Merlin SolarPlex panels have been tested in extreme conditions, more hostile than a solar panel will likely encounter even in the wildest oceans. This is to guarantee that Merlin SolarPlex are the perfect choice for those seeking durability and exceptional performances.

- **Self-healing top surface**  
gives the SolarPlex panels extra resilience in the toughest of conditions.
- **Completely waterproof**  
as a result of the six layer heavy duty laminate that protects the solar cell circuit from extreme conditions.
- **Expert design**  
with rounded corners and a unique curved junction box to provide superior adhesion, no snag lamination, and no sharp edges.
- **Salt water & UV tested and certified**  
to ensure long performance of the SolarPlex panels in the harshest of environments.
- **Protection from hotspots**  
as a result of the shading diodes housed within the junction box.
- **Easy to fit**  
with SolarPlex's ability to be bonded to flat or slightly curved surfaces (3cm curve per metre).



| POWER          | SIZE (MM)      | WEIGHT (KG) | WATTS PER DAY (W) | AMP HOURS PER DAY (A) | CHARGE CONTROLLER | P <sub>MAX</sub> (WP) | V <sub>MP</sub> (VDC) | I <sub>MP</sub> (A) | V <sub>OC</sub> (V) | I <sub>SC</sub> (A) |
|----------------|----------------|-------------|-------------------|-----------------------|-------------------|-----------------------|-----------------------|---------------------|---------------------|---------------------|
| 5W             | 240 X 250 X 4  | 0.36        | 30                | 1.68                  | N/A               | 5                     | 17.6                  | 0.28                | 21.9                | 0.31                |
| 10W            | 380 X 250 X 4  | 0.56        | 60                | 3.42                  | N/A               | 10                    | 17.6                  | 0.57                | 21.9                | 0.61                |
| 20W            | 475 X 345 X 4  | 0.79        | 120               | 6.84                  | 10Ah              | 20                    | 17.6                  | 1.14                | 21.9                | 1.23                |
| 60W            | 1450 X 315 X 4 | 3           | 360               | 20.22                 | 10Ah              | 60                    | 17.8                  | 3.37                | 22.1                | 3.64                |
| 80W            | 806 X 665 X 4  | 3.75        | 480               | 27.3                  | 10Ah              | 80                    | 17.6                  | 4.55                | 21.9                | 4.91                |
| 100W           | 1000 X 665 X 4 | 4.3         | 600               | 36.84                 | 10Ah              | 100                   | 17.6                  | 6.14                | 21.9                | 6.68                |
| 100W REAR EXIT | 980 X 650 X 4  | 4.2         | 600               | 34.08                 | 10Ah              | 100                   | 17.6                  | 5.68                | 21.9                | 6.14                |
| 120W           | 1160 X 665 X 4 | 5.6         | 720               | 40.92                 | 10Ah              | 120                   | 17.6                  | 6.82                | 21.9                | 7.36                |
| 150W           | 1515 X 665 X 4 | 6.7         | 900               | 51.12                 | 10Ah              | 150                   | 17.6                  | 8.52                | 21.9                | 9.2                 |
| 150W REAR EXIT | 1475 X 665 X 4 | 6.7         | 900               | 51.12                 | 10Ah              | 150                   | 17.6                  | 8.52                | 21.9                | 9.2                 |

Merlin's SolarPlex panels can be supplied in a variety of ways - from panel only to bulk packs - see what is included in each kit below:

**- Panel only**

Contents: Solar panel, 4m cable (attached), fuse and fuseholder, 4 x ring terminals, instruction sheet. (Can be upgraded to include a controller).

**- Roof / Deck Kit**

Contents: Solar panel, charge controller (not supplied with 5W models), bonding agent, 4m cable, cable feed gland, fuse and holder, 4 x ring terminals, instruction sheet.

**- Bulk Pack**

QTY of solar panels stated below.

| POWER | CONTROLLER          | PANEL ONLY | ROOF/DECK KIT | BULK PACK | BULK PACK QTY |
|-------|---------------------|------------|---------------|-----------|---------------|
| 5W    | No Controller       | 07-1001    | 07-1201       | 07-1101   | 5             |
| 10W   | No Controller       | 07-1002    | N/A           | 07-1102   | 5             |
|       | 10A Dual Controller | N/A        | 07-1202       | N/A       | N/A           |
| 20W   | No Controller       | 07-1003    | N/A           | 07-1103   | 5             |
|       | 10A Dual Controller | 07-1004    | 07-1203       | N/A       | N/A           |
| 60W   | No Controller       | 07-1005    | N/A           | 07-1104   | 2             |
|       | 10A Dual Controller | 07-1006    | 07-1204       | N/A       | N/A           |
|       | 15A MPPT Controller | N/A        | 07-1205       | N/A       | N/A           |
| 80W   | No Controller       | 07-1008    | N/A           | 07-1105   | 2             |
|       | 10A Dual Controller | 07-1009    | 07-1206       | N/A       | N/A           |
|       | 15A MPPT Controller | N/A        | 07-1207       | N/A       | N/A           |