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	PMAX (WP)	VMP (VDC)	IMP (A)	VOC (V)	ISC (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