

MERLIN SOLARPLEX MONO HIGH DENSITY FLEXI PANELS

Manufactured using the latest solar cell technology to create super efficient power generation, Merlin's Mono High Density (MHD) Flexi Solar Panels are hard wearing and ultra lightweight which makes it perfect for a campervan or boat.

With industry-leading guarantees, Merlin's MHD SolarPlex range incorporate innovative solar cell technology that eliminates spacing in the panels by overlapping the small cells. In addition, the passive rear solar cell contact replaces the conventional electrical ribbon seen on the surface of most other panels. As a result, more sunlight is captured by the cells and shading losses and hotspots are reduced. So, the higher energy density creates more power in a smaller space.

Certified and tested to ASTM B117-ISO 9227 standards in an independent laboratory, Merlin MHD 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's MHD SolarPlex are the perfect choice for those seeking durability and exceptional performances.

- **Exceptional technology**
used within the MHD panels allows more sunlight to be captured by the cells, minimising shading losses and hotspots.
- **Completely IP67 waterproof**
protecting the solar cell circuit from extreme conditions.
- **Expert design**
with a depth of just 2mm making them the perfect solution for flat, or slightly curved surfaces, where minimising weight is a must.
- **Salt water & UV tested and certified**
to ensure long performance of the SolarPlex panels in the harshest of environments.
- **The greatest amount of bend offered**
in a semi-flexible panel, Merlin's SolarPlex MHD panels closely hug a curved surface providing the utmost versatility.
- **Available in a variety of sizes**
from 110w to 290w with a choice of top or rear cable entry.

MERLIN
POWER



POWER	SIZE (MM)	WEIGHT (KG)	WATTS PER DAY (W)	AMP HOURS PER DAY (A)	CHARGE CONTROLLER	VMP (VDC)	IMP (A)	VOC (V)	ISC (A)
110W	1080 X 540 X 2	2.01	660	36.72	10Ah	18.0	6.12	21.2	6.48
110W (R)	1050 X 550 X 2	2.01	660	35.52	10Ah	18.6	5.92	22.0	6.27
150W	1440 X 560 X 2	2.3	900	48.42	10Ah	18.6	8.07	22.0	8.55
150W (R)	1390 X 560 X 2	2.7	900	48.42	10Ah	18.6	8.07	22.0	8.55
200W	1435 X 710 X 2	3.5	1200	49.20	20Ah	24.4	8.20	28.8	8.69
200W (R)	1380 X 890 X 2	3.4	1200	49.20	20Ah	24.4	8.20	28.8	8.69
250W	1475 X 890 X 2	4.5	1500	61.50	20Ah	24.4	10.25	28.8	10.86
250W (R)	1420 X 890 X 2	4.1	1500	64.14	20Ah	23.4	10.69	27.6	11.32
290W	1650 X 890 X 2	5.2	1740	63.54	20Ah	27.4	10.59	32.3	11.22
290W (R)	1710 X 890 X 2	4.6	1740	71.34	20Ah	24.4	11.89	28.8	12.60

Merlin's MHD 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, fuse and fuseholder, instruction sheet. (Can be upgraded to include a controller).

- Roof / Deck Kit

Contents: Solar panel, 4m cable, shading diode, controller, bonding agent and instruction sheet.

- Bulk Pack

QTY of solar panels stated below.

POWER	ENTRY	CONTROLLER	PANEL ONLY	ROOF/DECK KIT	BULK PACK	BULK PACK QTY
110 Watt	TOP	NO CONTROLLER 10A DUAL CONTROLLER 15A MPPT CONTROLLER	07-1010 07-1011 N/A	N/A 07-1208 07-1209	07-1106 N/A N/A	2 N/A N/A
110 Watt	REAR	NO CONTROLLER 10A DUAL CONTROLLER 15A MPPT CONTROLLER	07-1012 07-1013 N/A	N/A 07-1210 07-1211	07-1107 N/A N/A	2 N/A N/A
150 Watt	TOP	NO CONTROLLER 10A DUAL CONTROLLER 15A MPPT CONTROLLER	07-1014 07-1015 N/A	N/A 07-1212 07-1213	07-1108 N/A N/A	2 N/A N/A
150 Watt	REAR	NO CONTROLLER 10A DUAL CONTROLLER 15A MPPT CONTROLLER	07-1016 07-1017 N/A	N/A 07-1214 07-1215	07-1109 N/A N/A	2 N/A N/A
200 Watt	TOP	NO CONTROLLER 15A MPPT CONTROLLER 20A DUAL CONTROLLER	07-1018 N/A 07-1019	N/A 07-1217 07-1216	07-1110 N/A N/A	2 N/A N/A
200 Watt	REAR	NO CONTROLLER 15A MPPT CONTROLLER 20A DUAL CONTROLLER	07-1020 N/A 07-1021	N/A 07-1219 07-1218	07-1111 N/A N/A	2 N/A N/A
250 Watt	TOP	NO CONTROLLER 15A MPPT CONTROLLER 20A DUAL CONTROLLER	07-1022 N/A 07-1023	N/A 07-1221 07-1220	07-1112 N/A N/A	2 N/A N/A
250 Watt	REAR	NO CONTROLLER 15A MPPT CONTROLLER 20A DUAL CONTROLLER	07-1024 N/A 07-1025	N/A 07-1223 07-1222	07-1113 N/A N/A	2 N/A N/A
290 Watt	TOP	NO CONTROLLER 15A MPPT CONTROLLER 20A DUAL CONTROLLER	07-1026 N/A 07-1027	N/A 07-1225 07-1224	07-1114 N/A N/A	2 N/A N/A
290 Watt	REAR	NO CONTROLLER 15A MPPT CONTROLLER 20A DUAL CONTROLLER	07-1028 N/A 07-1029	N/A 07-1227 07-1226	07-1115 N/A N/A	2 N/A N/A