

SOLBIANFLEX™

FLEXIBLE
PHOTOVOLTAIC
PANELS



FLEX SX54



The mono crystalline solar cells used in the new **SX series** are electrically connected using ultra-thin copper wires that form a very fine mesh on the cell surface, resulting in thousand of contact points. This alternative to the standard bus bar method allows a higher module power and increases the energy yield.

This technology is optimally suited to flexible modules, due to its intrinsic insensitivity to micro-cracks, that are the most common cause of energy loss in solar modules. Another advantage is the decrease of shading effect, a quite important issue in marine and mobility applications.

The **SOLBIANFLEX PANELS** are the product of experience installing PV systems on many racing boats of the greatest navigators including:

- ✓ Maserati "VOR 70" of **Giovanni Soldini**
- ✓ 60' Open IMOCA "Safran" of **Marc Guillemot**
- ✓ 60' Open IMOCA "Cervin EnR" of **Yannick Bestaven**
- ✓ "Team Plastique" of **Alessandro di Benedetto**

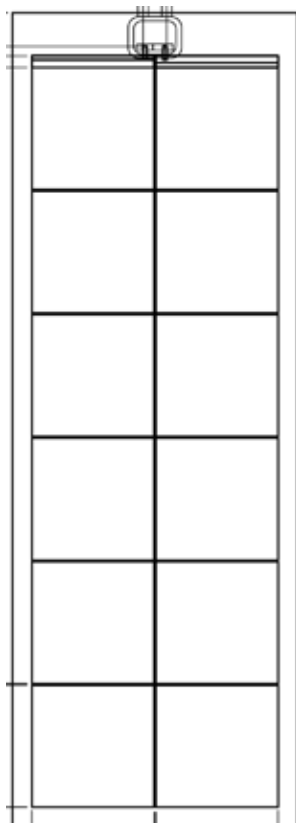
And many others that are sailing the world from the equator to the poles.

MADE IN ITALY

SOLBIAN.EU

SOLBIAN

CONNECTION AND FIXING OPTIONS



CONNECTION: JUNCTION BOX



CONNECTION: SOLDERING RIBBON



FIXING: DOUBLE SIDED TAPE



FIXING: STAINLESS STEEL EYELETS



FIXING: ZIPPER

FLEX SX54

ELECTRICAL CHARACTERISTICS

Peak Power (+/- 5%) - Pmax	54 W
Rated Voltage - Vmp	6.5 V
Rated Current - Imp	8.3 A
Open Circuit Voltage - Voc	7.5 V
Short circuit Current - Isc	9 A
Temp. coeff. Pmax	-0.44%/°C
Temp. coeff. Voc	-0.33%/°C
Temp. coeff. Isc	0.05%/°C

PHYSICAL CHARACTERISTICS

Length	1041 mm
Width	364 mm
Thickness	2 mm
Weight	0.9 kg
Num. of cells	12

SX series panels use "full square" monocrystalline silicon cells with **efficiency larger than 19%**. The new connection technology makes SX panels especially resistant to impacts and less sensitive to shading. **High energy yield and high reliability**

WARRANTIES

- ✓ **5 year** limited power warranty
- ✓ **2 year** limited product warranty