







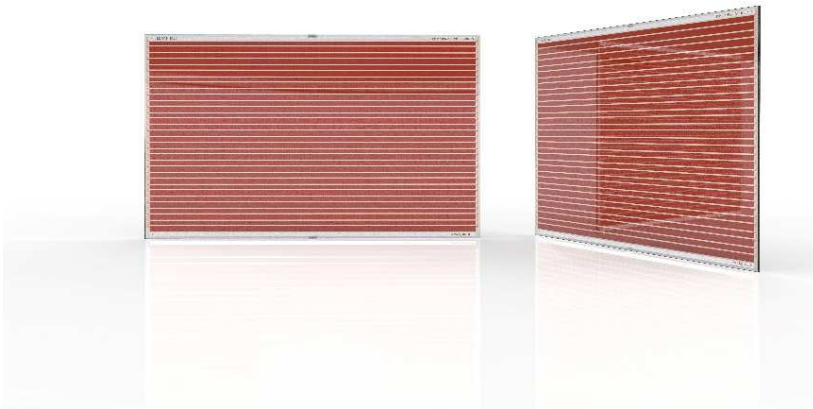


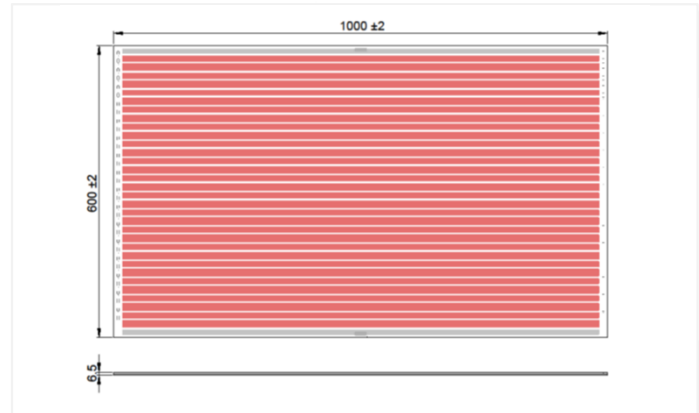
## THE ONLY COLOURED, TRANSPARENT AND ACTIVE PV MATERIAL

-  Coloured
-  Transparent
-  Bifacial & 360° Efficiency
-  Outdoor & Indoor use
-  Low light
-  High temperature
-  Glass structure
-  Easy recycling



## 01 MECHANICAL SPECIFICATIONS

Technology	DSSC
External dimensions	1000 x 600 mm ( $\pm 2$ mm)
Thickness	6.4 mm
Front glass	3.2 mm float glass
Back glass	3.2 mm float glass
Weight	9.6 kg



## 02 ELECTRICAL SPECIFICATIONS

### PERFORMANCE UNDER STC 1000 W/m<sup>2</sup>, 25 °C, AM 1.5

Nominal power	P <sub>m</sub> [W]	12.8
Open circuit voltage	V <sub>oc</sub> [V]	20.9
Short circuit current	I <sub>sc</sub> [A]	1.1
Maximum power voltage	V <sub>m</sub> [V]	13.5
Maximum power current	I <sub>m</sub> [A]	1.0
Power tolerance	[%]	+/- 5

### PERFORMANCE UNDER 800 W/m<sup>2</sup>, NOCT, AM 1.5

Nominal power	P <sub>m</sub> [W]	10.9
Open circuit voltage	V <sub>oc</sub> [V]	19.6
Short circuit current	I <sub>sc</sub> [A]	1.0
Maximum power voltage	V <sub>m</sub> [V]	13.8
Maximum power current	I <sub>m</sub> [A]	0.8

For the DSSC the module efficiency increase with decreasing irradiation

## 03 THERMAL AND SOLAR SPECIFICATIONS

### TEMPERATURE COEFFICIENTS

Coefficient for I <sub>sc</sub>	$\alpha$ [%/°C]	+0.1
Coefficient for V <sub>oc</sub>	$\beta$ [%/°C]	-0.37
Coefficient for P <sub>m</sub>	$\gamma$ [%/°C]	+0.05
Nominal Operating Cell T.	NOCT [°C]	45

### TRANSMITTANCES AND SOLAR FACTOR

Visible transmittance	T <sub>L</sub> [%]	33
Solar Factor	G [%]	35
Thermal transmittance	U [W/m <sup>2</sup> K]	Available on final product

## 04 SYSTEM INTEGRATION

System voltage	100 V
Maximum reverse current	1.4 A
Operating temperature	-20°C / +70°C
Maximum mechanical resistance	Available on final product

## 05 CERTIFICATIONS

Design certification & type approval IEC 61646	In progress on final products
Safety certification IEC 61730	In progress on final products

Specifications subject to technical changes