flexcell®
Smart power. Brilliant solutions.

Cost efficient and fully integrated PV solution for large area flat roofs!

Roofing Membrane FLX-TO100

Ref FLX-TO100

Physical Specifications

Width	[mm]	1320
Length	[mm]	3700
Thickness	[mm]	2.4 - 2.7
Support	[-]	1.5 - 1.8mm TPO membrane
Colour	[-]	gray
Solar Modules	[-]	flexcell 2S22P / 936mm x 3353mm
Electrical Junction Box	[-]	Huber+Suhner IP67, with 10A by-pass diode
Electrical Cables & Connectors	[-]	Radox® Solar 2.5mm², 2 x 300mm
Specific Weight	[kg/m2]	2.5 - 3.5

Electrical Specifications*

* @Standard Testing Conditions (STC):1000W/m2, AM1.5, 25°C
** MPP = Maximum Power Point

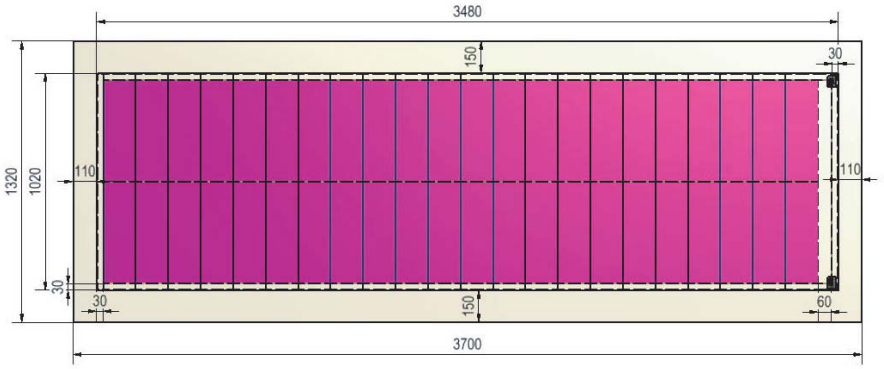
Rated Power*	Pmpp** [W]	101
Rated Voltage*	Vmpp** [V]	45.4
Rated Current*	Impp** [A]	2.23
Short Circuit Current*	Isc [A]	3.0
Open Circuit Voltage*	Voc [V]	64.1
Short Circuit Current	Isc[A] @ 75°C	3.1
Open Circuit Voltage	Voc[V] @ -20°C	71
Temperature Coefficient for Voc*	[%/°C]	- 0.237
Temperature Coefficient for Isc*	[%/°C]	+ 0.086
Temperature Coefficient for Pmpp*	[%/°C]	- 0.15
Max. System Voltage	[V]	600

Quality Specifications

Tolerance of Rated Power		± 5%
Warranty on Power Ouput		20 years for 80% of Rated Power (STC)
Certificates		IEC 61646 / EN 61730

Notes
- During the first 2-4 weeks of operation, electrical output exceeds specified ratings. Power output may be higher by 20%, operating voltage by 7%, operating current by 10% and short circuit current by 3%.
- Specifications subject to technical changes

Technical Drawing



Product Advantages

> a-Si thin film module with superior energy yields under real wheather conditions

> fully integrated solution

> installed like a standard single ply roofing membrane system (hot air welding)

> no PV additional mounting cost

> easy electrical connection with Radox® Solar system

> suitable as double layer roof system as well

> high energy yield for flat roofs