

eFlex 1.6m – for Buildings & Mobility

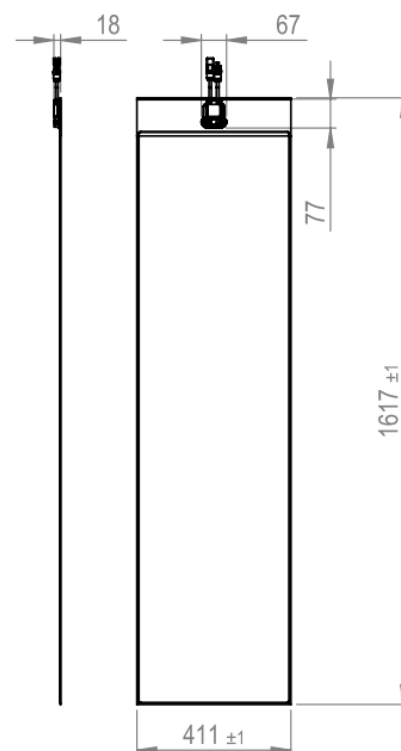


Description

The eFlex is a flexible and lightweight solar panel designed for integration into roofs, structures with limited load bearing capacity, mobility applications on trailers, RVs, boats and many more demanding applications.

Features

- Most elegant and aesthetic solar module, beautiful uniform design
- High energy yield due to excellent shadow tolerance and temperature stability
- Applicable for curved surfaces – bendable
- Ultra-low weight, < 2kg/m²
- Unbreakable & robust - no glass, no micro cracks
- EL tested
- Made in Switzerland
- Available in 0.8m, 1.6m, 2.3m and 3.1m length



Dimensions		
Length	[mm]	1617
Width	[mm]	411
Thickness at module	[mm]	2.2
Thickness at J-Box	[mm]	21 ± 1
Weight	[Kg]	1.3

Electrical characteristics at STC ¹			FF 50	FF 55	FF 60
Model number					
Nominal power	P _{mpp}	[W]	50	55	60
Tolerance		[W]	-0/+5	-0/+5	-0/+5
Voltage at nom. power	V _{mpp}	[V]	34	35	36
Current at nom. power	I _{mpp}	[A]	1.47	1.54	1.66
Open circuit voltage	V _{oc}	[V]	46	47	48
Short circuit current	I _{sc}	[A]	1.72	1.82	1.91
Max. system voltage	IEC	[V]		1000	
Max. serial fuse rating		[A]		10	

Thermal characteristics			
Temperature coefficient	V _{oc}	[%/°C]	-0.3
Temperature coefficient	I _{sc}	[%/°C]	0.01
Temperature coefficient	P _{mpp}	[%/°C]	-0.35

Operating conditions		
Temperature range	[°C]	-40 to +85
Max. mechanical load		2400 Pa, 245 kg/m ²

Additional data	
Cell type	Flexible CIGS
Junction box	Front side including bypass diode, IP67, MC4 type / MC4 connectors, 700mm long cable (4 mm ²)
Encapsulation	Fluoropolymer front sheet / plastic back sheet
Parallel connection	Y-connector available
Customization	Possible on request for larger volumes / Optional front and back-side junction box

Warranty & certification	
Performance guarantee	10 years on 90% of P _{mpp} under STC ¹ & 20 year on 80% of P _{mpp} under STC ¹
Warranty	5 years' workmanship after delivery date
Certification	IEC 61646 2nd Ed testing underway; IEC 61730 testing underway
Safety class	II

Notes

¹ STC: 1000 W/m², AM1.5G, 25°C, stabilized module state

² NOCT: 800 W/m², AM1.5G, 20°C, Wind Velocity = 1 m/s

We continuously develop our products. Electrical and physical properties subject to change without prior notice.

Distribution & Installation Partner: