

# eMetal 2.3m – for Buildings & BIPV

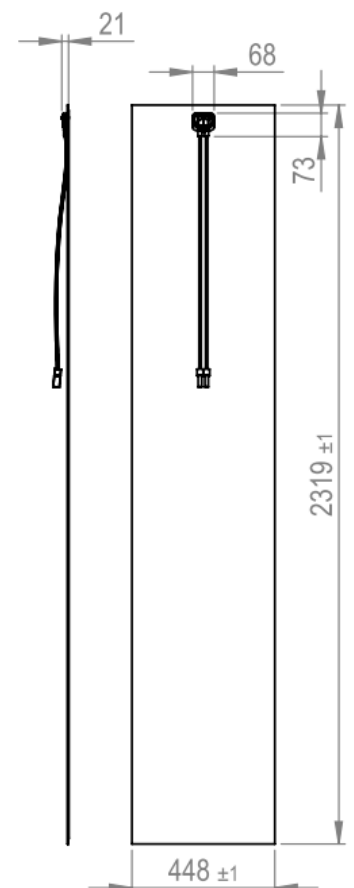


## Description

The eMetal is a semi-flexible and lightweight solar panel designed for installation on roof structures with limited load bearing capacity, aesthetical metal BIPV facades and many more demanding solar applications.

## Features

- Most elegant and aesthetic solar module, beautiful uniform design
- High energy yield due to excellent shadow tolerance and temperature stability
- Easy installation – drill & fix –mounting instruction available on request
- Applicable for roofs and facades – semi-bendable
- Ultra-low weight, < 4 kg/m<sup>2</sup>
- Unbreakable & robust - no glass, no micro cracks
- EL tested
- Made in Switzerland
- Available in 0.8m, 1.6m, 2.3m and 3m length
- Available with black frame color for highest aesthetics



Dimensions			
Length	[mm]		2319
Width	[mm]		448
Thickness at module	[mm]		2.2
Thickness at J-Box	[mm]		21 ± 1
Weight	[Kg]		4.1

Electrical characteristics at STC <sup>1</sup>			SF 80	SF 85	SF 90
Model number					
Nominal power	Pmpp	[W]	80	85	90
Tolerance		[W]	-0/+5	-0/+5	-0/+5
Voltage at nom. power	Vmpp	[V]	36	37	38
Current at nom. power	Impp	[A]	2.22	2.29	2.37
Open circuit voltage	Voc	[V]	48	49	50
Short circuit current	Isc	[A]	2.47	2.53	2.62
Max. system voltage	IEC	[V]		1000	
Max. serial fuse rating		[A]		10	

Thermal characteristics			
Temperature coefficient	Voc	[%/°C]	-0.3
Temperature coefficient	Isc	[%/°C]	0.01
Temperature coefficient	Pmpp	[%/°C]	-0.35

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

Additional data	
Cell type	Flexible CIGS
Junction box	Back side including bypass diode, IP67, MC4 type / MC4 connectors, 700mm long cable (4mm <sup>2</sup> )
Encapsulation	Fluoropolymer front sheet / 1mm alu back plate
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 Pmpp under STC <sup>1</sup> & 20 year on 80% of Pmpp under STC <sup>1</sup>
Warranty	5 years' workmanship after delivery date
Certification	EN IEC 61646; EN IEC 61730-1 & -2
Safety class	II

#### Notes

<sup>1</sup> STC: 1000 W/m<sup>2</sup>, AM1.5G, 25°C, stabilized module state

<sup>2</sup> Not covered under current certifications

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