

eMetal 3.1m – for Buildings & BIPV

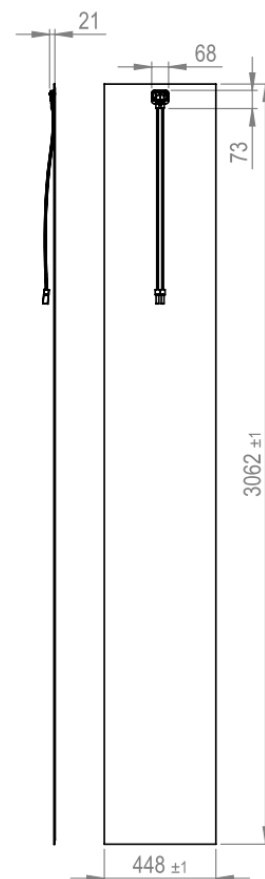


Description

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/m²
- 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]	3062 ±2
Width	[mm]	448 ±2
Thickness at module	[mm]	2.2
Thickness at J-Box	[mm]	21 ± 1
Weight	[Kg]	5.5

Electrical characteristics at STC ¹			SF 100	SF 105	SF 110	SF 115	SF 120 ²
Power classes							
Nominal power	Pmpp	[W]	100	105	110	115	120
Tolerance		[W]	-0/+5	-0/+5	-0/+5	-0/+5	-0/+5
Voltage at nom. power	Vmpp	[V]	34.0	34.5	35.1	35.7	36.2
Current at nom. power	Impp	[A]	2.96	3.04	3.13	3.22	3.31
Open circuit voltage	Voc	[V]	46.9	47.3	47.8	48.2	48.6
Short circuit current	Isc	[A]	3.86	3.89	3.92	3.96	3.99
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 ²

Additional data	
Cell type	Flexible CIGS
Junction box	Front side including bypass diode, IP65 & IP67, MC4 type / MC4 connectors, 900mm long cable (4 mm ²)
Packaging	3140x810x600 mm (LxWxH), 25 units, 165 kg, Boxes can be stacked 2 boxes high.

Warranty & certification	
Performance guarantee	10 years on 90% of Pmpp under STC ¹ & 20 year on 80% of Pmpp under STC ¹
Warranty	5 years' workmanship after delivery date
Certification	EN IEC 61646; EN IEC 61730-1 & -2
Safety class	II

Notes

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

² Not covered under current certifications

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