

eMetal 1.6m – for Buildings & BIPV

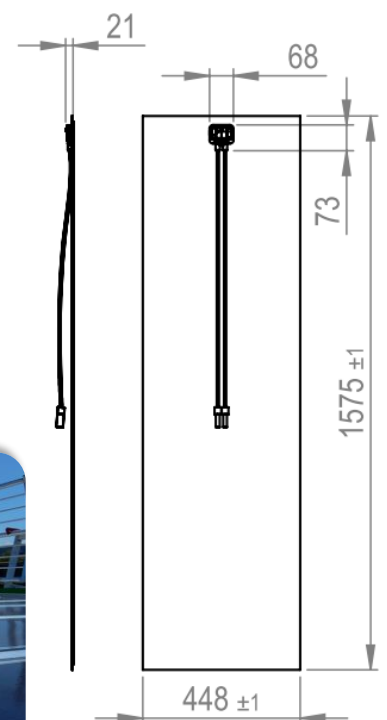


Description

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]		1575
Width	[mm]		448
Thickness at module	[mm]		2.2
Thickness at J-Box	[mm]		21 ± 1
Weight	[Kg]		2.7

Electrical characteristics at STC ¹				SF 50	SF 55	SF 60
Model number						
Nominal power	Pmpp	[W]	50	55	60	
Tolerance		[W]	-0/+5	-0/+5	-0/+5	
Voltage at nom. power	Vmpp	[V]	34	35	36	
Current at nom. power	Impp	[A]	1.47	1.54	1.66	
Open circuit voltage	Voc	[V]	46	47	48	
Short circuit current	Isc	[A]	1.72	1.82	1.91	
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, IP67, MC4 type / MC4 connectors, 700mm long cable (4mm ²)
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 ¹ & 20 year on 80% of Pmpp 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: