

Photovoltaic Amorphous SMA - 44



Transparent photovoltaic suitable for conservatories and roof panel lights

Building integrated PV glazing system. Two thicknesses are available, 10.5mm (Top, Bottom: 5t anealed) and 13.5mm. 20 Years Power output Guarantee. IEC and UL certified

There are main four reasons to choose and use this extraordinary advancement in photovoltaic industry and environmental awareness, they are, Energy saving, Green Building design, Comfort and High Performance.

Building Integrated Photovoltaic (BIPV) systems can be used just like standard materials, with the added value of generating utility grade electricity directly from sunlight.

Electrical Specification

PeakPower(Wp)	44 Watts	50 Watts	55 Watts
Transmittance	10%	5%	1%
Maximum voltage	59.6V	64.4V	68.0V
Maximum Current	0.74A	0.78A	0.81A
Open Circuit Voltage	91.8V	91.8V	91.8V
Short Circuit Current (Isc)	0.97A	1.09A	1.14A

Operating Conditions

Solar Heat Gain Coefficient

vertical	0.24
at 45°	0.25
horizontal	0.25

Shading coefficient

vertical	0.27
at 45°	0.28
horizontal	0.29

U-Value (exterior to interior)

vertical	6.0 W/m ² K
at 45°	6.5 W/m ² K
horizontal	6.5 W/m ² K

U-Value (interior to exterior)

vertical	6.0 W/m ² K
at 45°	5.6 W/m ² K
horizontal	4.8 W/m ² K

Mechanical Data

Length mm	980
Width mm	950
Height mm float glass	10.5
Height (mm) tempered glass	13.5
Weight kg (float glass type)	23
Weight kg (tempered glass type)	30
Series cells	108
Parallel cells	1
Cell area	80.95 cm ²
Cell length mm	922
Cell width mm	8.78

Optical Data

Visible Light

transmitted	10.60%
reflected	9.70%

Total Solar Energy

transmitted	10%
reflected	20%
absorbed	70%

UV rejected

	98.9%
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