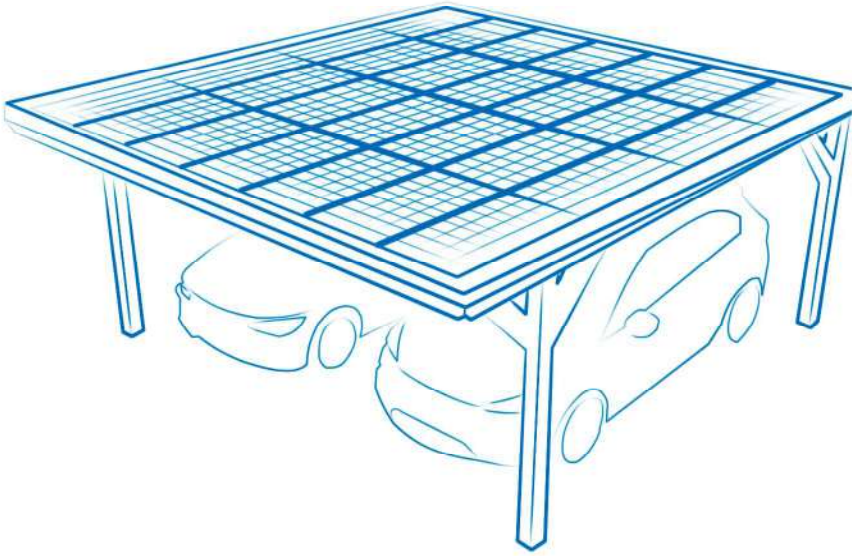

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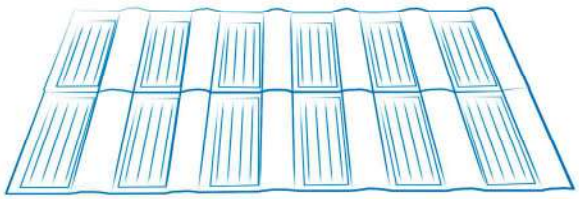

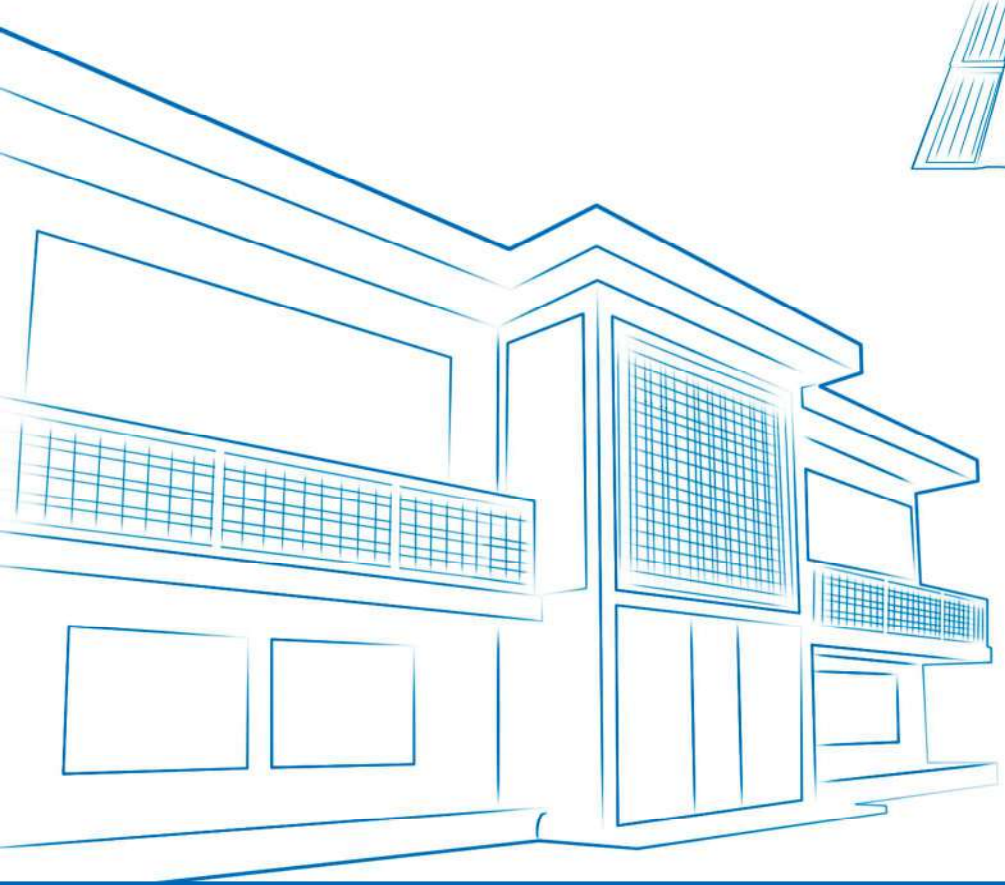

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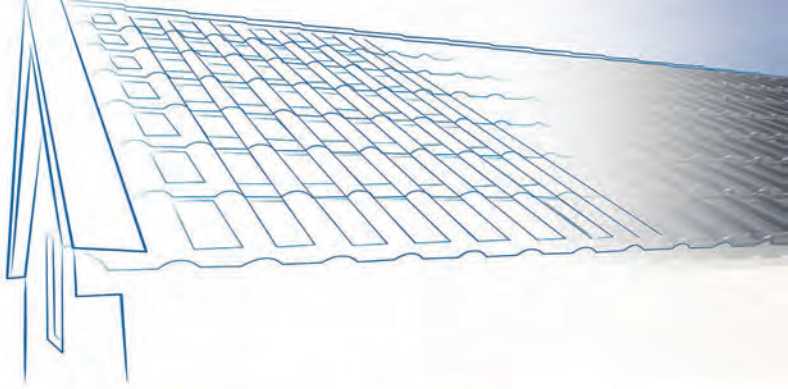


MODEL PHOTOVOLTAIC TILE **TL-C-M-75W**

BIPV SOLUTIONS presents its photovoltaic roof tile model Curva M, ideal to obtain the benefits of solar capture through photovoltaic generation and full architectural integration.

Solar Innova uses the latest materials to manufacture photovoltaic glass solar tiles. Our solar roof tiles are ideal for any application that uses the photoelectric effect as a clean energy source because of its minimal chemical pollution and no noise pollution.

The front of the solar tile contains a tempered solar glass curved with high transmissivity, low reflectivity and low iron content.

These PV roof tile use high-efficiency, crystalline silicon cells to transform the energy of sunlight into electric energy. Each cell is electrically rated to optimize the behavior of the tile.

The cell circuit is laminated using PVB (Polyvinyl Butyral) as a encapsulant.

Back side contains a tempered glass which provides complete protection and seals against environmental agents and electrical insulation.

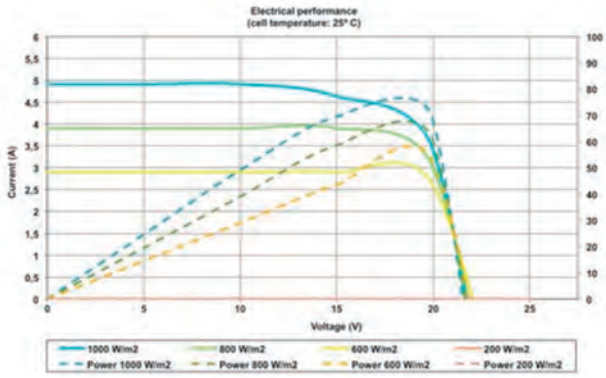
The junction boxes with IP67, are made from high temperature resistant plastics and containing terminals, connection terminals and protection diodes (by-pass). These tiles are supplied with symmetric lengths of cable, with a diameter of copper section of 4 mm and an extremely low contact resistance, all designed to achieve the minimum voltage drop losses.

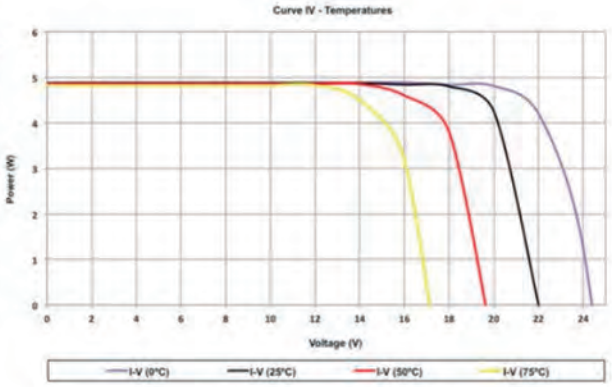
Our tiles comply with all safety requirements not only flexibility but also double insulation and high resistance to UV rays, all are suitable for use in outdoor applications. The design of these modules makes their integration in both industrial and residential buildings (one of the most emerging sectors in the photovoltaic market), and other infrastructure, simple and aesthetic.

ELECTRICAL CHARACTERISTICS

STC	Irradiance: 1.000 W/m2	Module temperature: 25° C	Air quality: 1,5

Maximum Power (Pmpp)	Wp	75
Tolerance	Wp	0 ~ + 180
Voltage at maximun power (Vmpp)	Volts	23.06
Current at maximum power (Impp)	Amperes	8,39
Open circuit voltage (Voc)	Volts	29.31
Short circuit current (Isc)	Amperes	8,82
Maximum system voltage (Vsyst)	Volts	715 (IEC)
Diodes (By-pass)	Quantity	2
Maximum series fuse	Amperes	10
Efficiency (ηm)	%	13.89
Form Factor	%	≥ 73





MECHANICAL CHARACTERISTICS

Size	Height	600 mm
	Width	900 mm
	Thickness	6 mm
Weight	Net	6,5 Kg
Front	Material	High transmission tempered glass
	Thickness	5 ± 0,2 mm
Cells	Type	Monocrystalline
	Quantity	15 x 3 uds
	Size	156 x 156 mm
Encapsulation	Material	EVA
	Thickness	0,76 ± 0,03 mm
Back - Sheet	Material	TPT
	Thickness	0,76 ± 0,03 mm
Junction box	Protection	IP65

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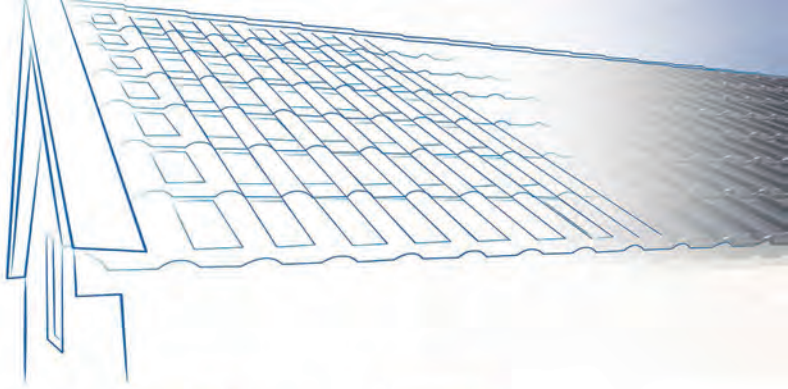


Photovoltaic roof tile model **TL-M-M-30W**

BIPV SOLUTIONS presents its mixed-model photovoltaic solar tile Monocrystalline, ideal to obtain the benefits of solar capture through photovoltaic generation and full architectural integration.

Solar Innova uses the latest materials to manufacture photovoltaic glass solar tiles. Our solar roof tiles are ideal for any application that uses the photoelectric effect as a clean energy source because of its minimal chemical pollution and no noise pollution.

The front of the solar tile contains a tempered solar glass curved with high transmissivity, low reflectivity and low iron content.

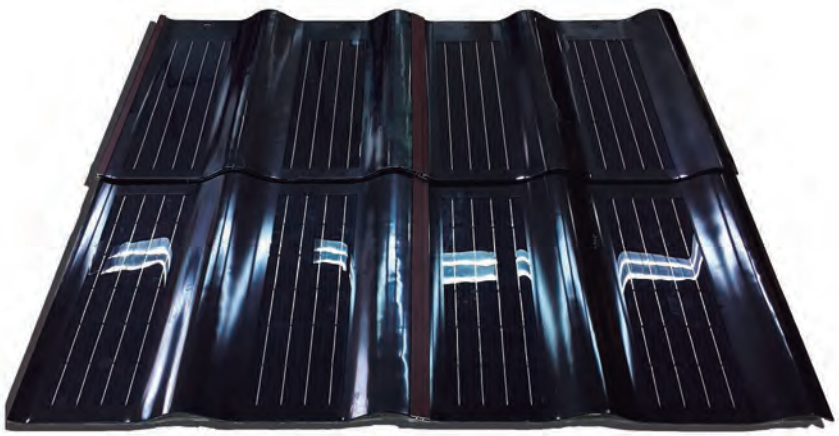
These PV roof tile use high-efficiency, crystalline silicon cells to transform the energy of sunlight into electric energy. Each cell is electrically rated to optimize the behavior of the tile.

The cell circuit is laminated using PVB (Polyvinyl Butyral) as a encapsulant.

Back side contains a tempered glass which provides complete protection and seals against environmental agents and electrical insulation.

The junction boxes with IP67, are made from high temperature resistant plastics and containing terminals, connection terminals and protection diodes (by-pass). These tiles are supplied with symmetric lengths of cable, with a diameter of copper section of 4 mm and an extremely low contact resistance, all designed to achieve the minimum voltage drop losses.

Our tiles comply with all safety requirements not only flexibility but also double insulation and high resistance to UV rays, all are suitable for use in outdoor applications. The design of these modules makes their integration in both industrial and residential buildings (one of the most emerging sectors in the photovoltaic market), and other infrastructure, simple and aesthetic.



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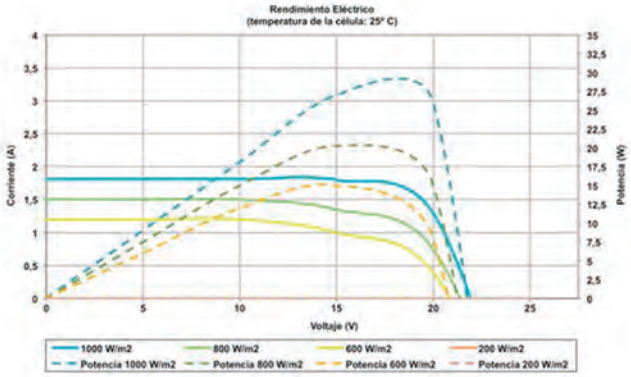
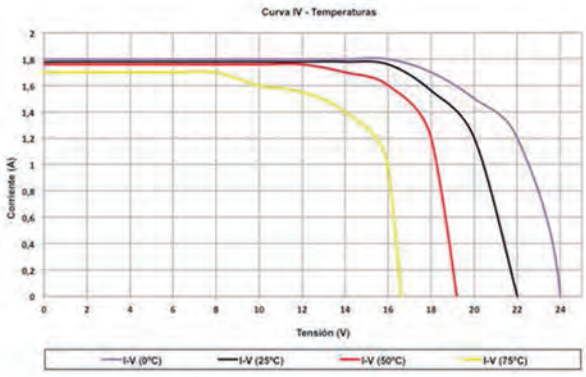
ELECTRICAL CHARACTERISTICS

STC	Irradiance: 1.000 W/m2	Module temperature: 25° C	Air quality: 1,5

Maximum Power (Pmpp)	Wp	30
Tolerance	Wp	0 ~ + 0,90
Voltage at maximun power (Vmpp)	Volts	3,576
Current at maximum power (Impp)	Amperes	8,39
Open circuit voltage (Voc)	Volts	3,90
Short circuit current (Isc)	Amperes	8,82
Maximum system voltage (Vsyst)	Volts	715 (IEC)
Diodes (By-pass)	Quantity	2
Maximum series fuse	Amperes	10
Efficiency (ηm)	%	7,90
Form Factor	%	≥ 73





MECHANICAL CHARACTERISTICS

Size	Height	600 mm
	Width	633 mm
	Thickness	6 mm
Weight	Net	4,5 Kg
Front	Material	High transmission tempered glass
	Thickness	5 ± 0,2 mm
Cells	Type	Monocristalinas
	Quantity	2 x 3 uds
	Size	156 x 156 mm
Encapsulation	Material	EVA
	Thickness	0,76 ± 0,03 mm
Back - Sheet	Material	TPT
	Thickness	0,76 ± 0,03 mm
Junction box	Protection	IP65

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