



Invent Q.olor[®]

 **Invent Q.olor**® •••••

full colors

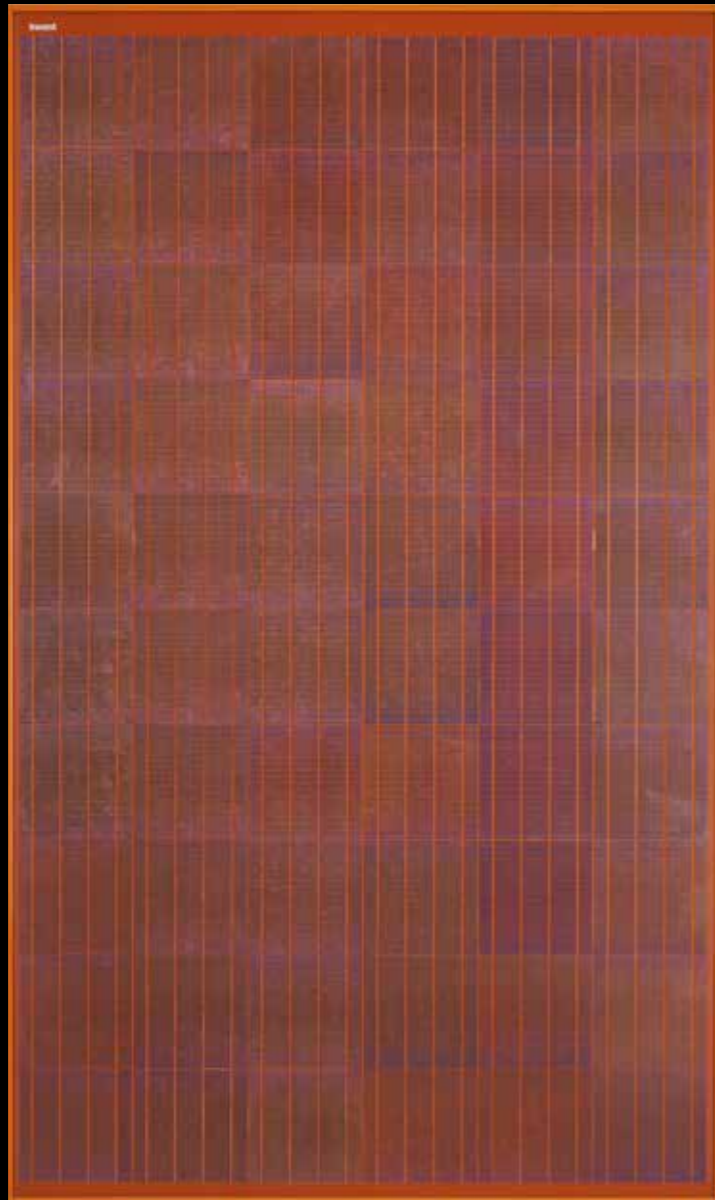


All Invent Q modules are equipped with Invent's patented InvisibleCell® technology, which makes the module's electrical connections invisible, making the panels aesthetically pleasing with an elegant and modern design.

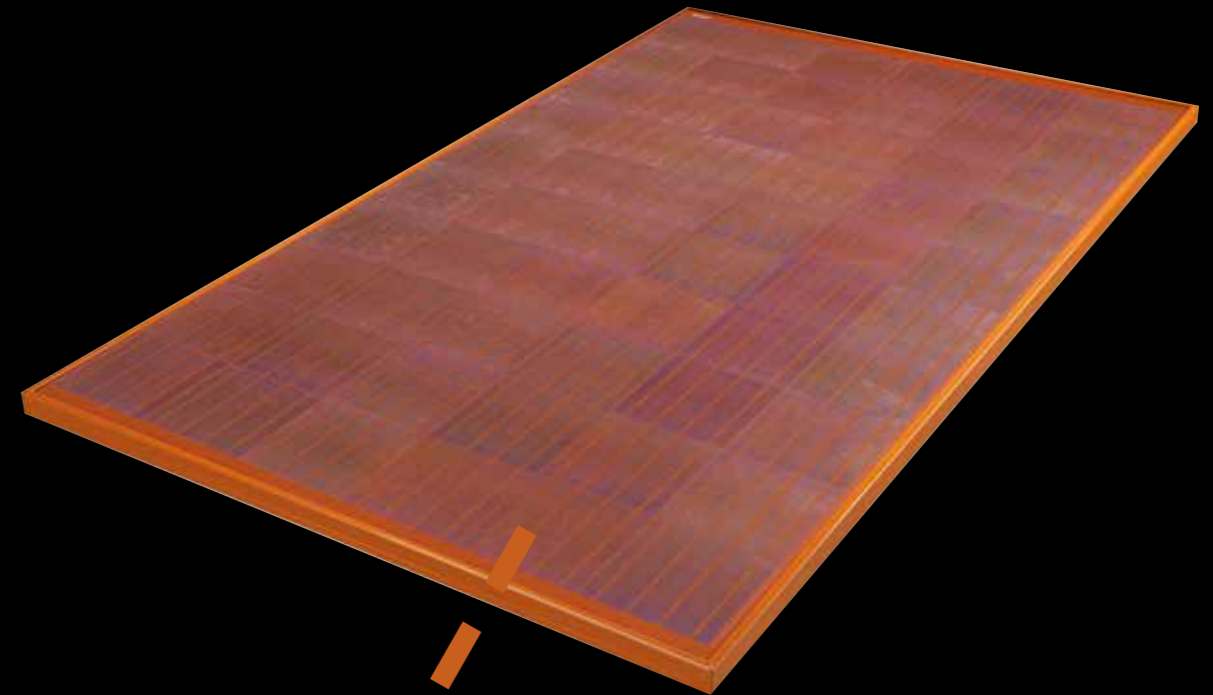
Q panel consists of 60 monocrystalline and polycrystalline silicon photovoltaic cells, which generate high power in each module.

cotto color

Invisible Cell®
TECHNOLOGY



The warm cotto colour perfectly matches the roofs of the houses, giving the impression of a roof free of any superstructure.



+20%

higher hail resistance
compared to the market standard

Invent's Cotto Q.olor® modules exploit the InvisibleCell® technology, which makes the module chromatically homogeneous for an excellent yield in terms of architectural integration.

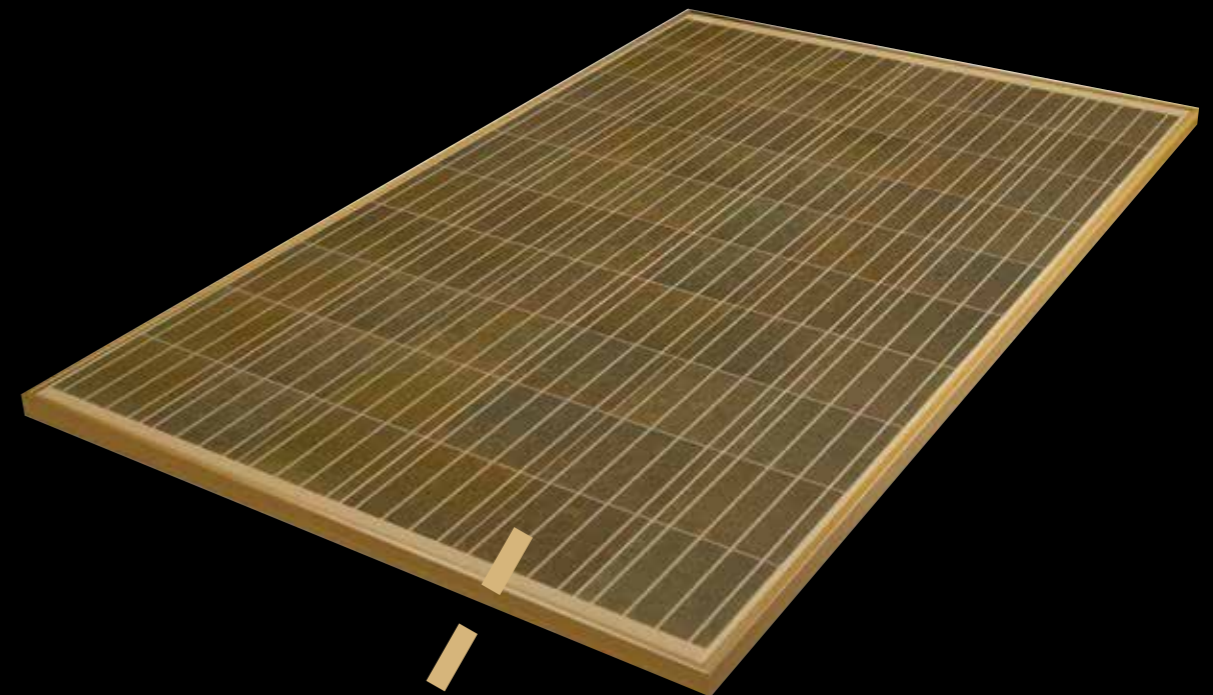
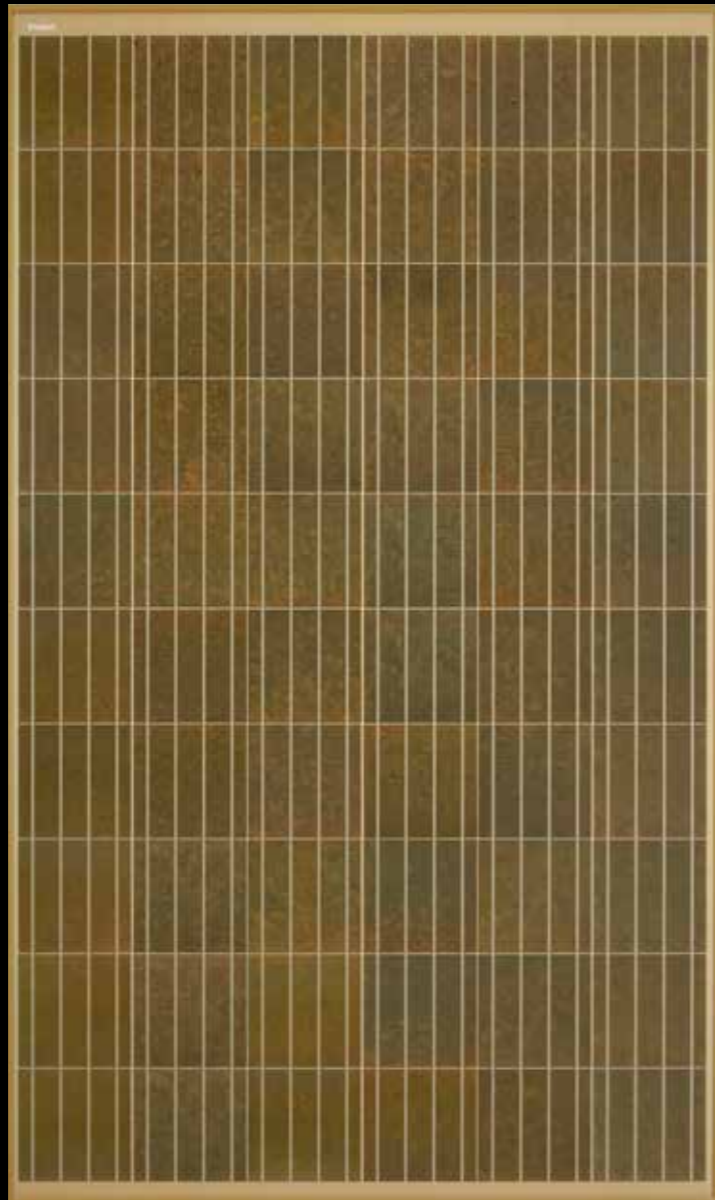
cotto color



sand color

Its homogeneous colour hints at those of the nature for excellent architectural integration.

Invisible Cell®
TECHNOLOGY



+25%

glass thickness
compared to the market standard

Invent's Sand Q.olor® modules exploit the InvisibleCell® technology and are perfect for marine settings. Their delicate colour perfectly matches marine settings where light and relaxing colours are preferred.

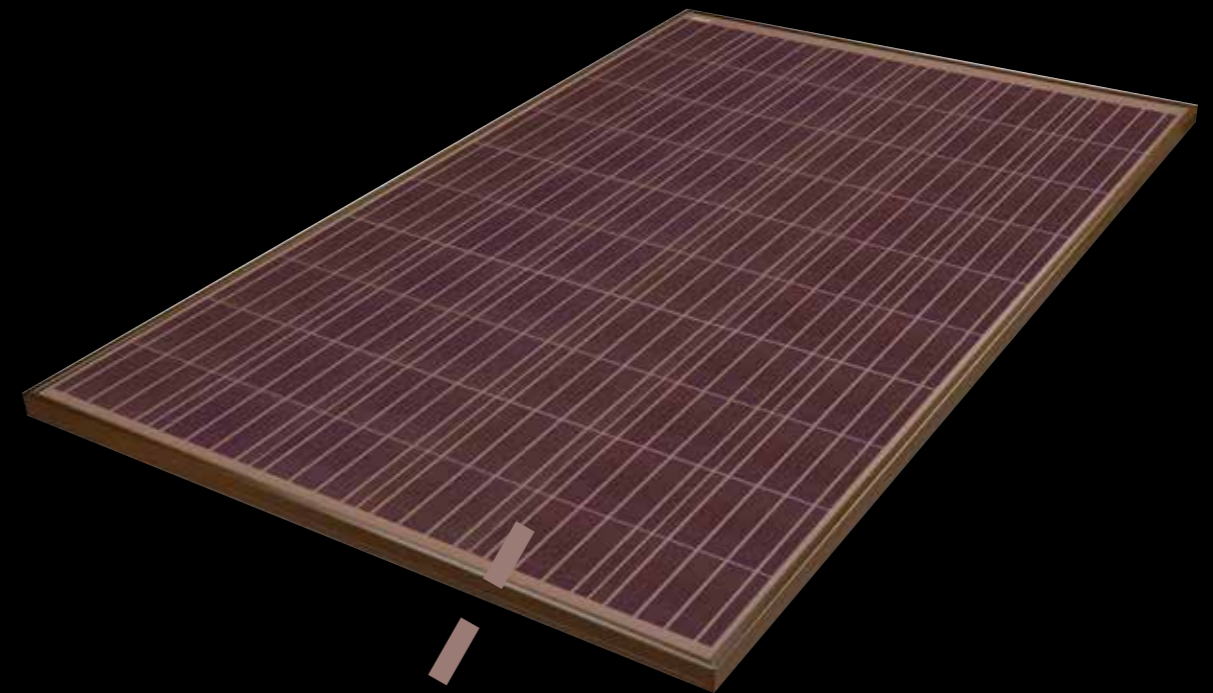
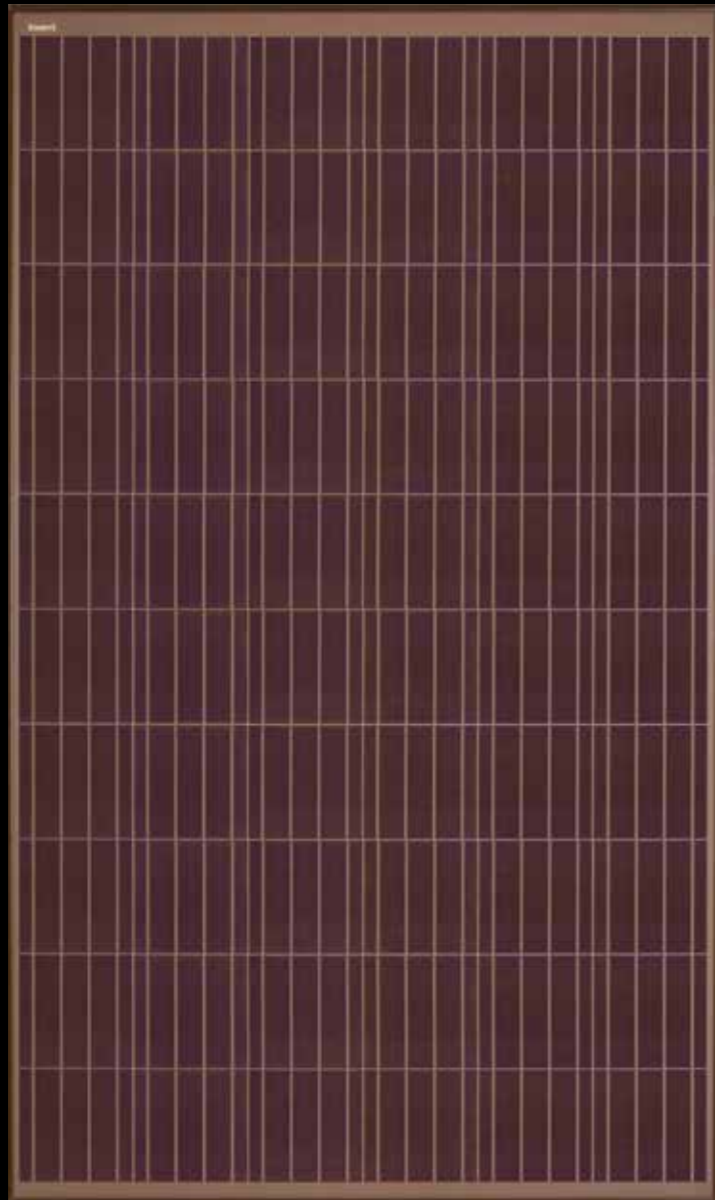
sand color



brown color

This module, which is entirely made in Italy, has excellent yield in terms of power and combines functionality and design.

Invisible Cell®
TECHNOLOGY



+50%

mechanical load
compared to the market standard

Invent's Brown Q.olor® modules exploit the InvisibleCell® technology, which makes the module chromatically homogeneous for an excellent yield in mountain settings where architecture and wood merge superbly.

brown color



dinamic colors



All Invent Q modules are equipped with Invent's patented InvisibleCell® technology, which makes the module's electrical connections invisible, making the panels aesthetically pleasing with an elegant and modern design.

Q panel consists of 60 polycrystalline silicon photovoltaic cells, which generate high power in each module.

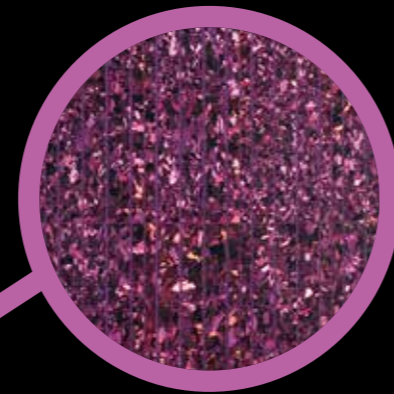
purple color

Invent's Purple Q.olor® module with InvisibleCell® technology is eccentric by definition. It matches settings featuring particular wall colours, which need customised solutions.

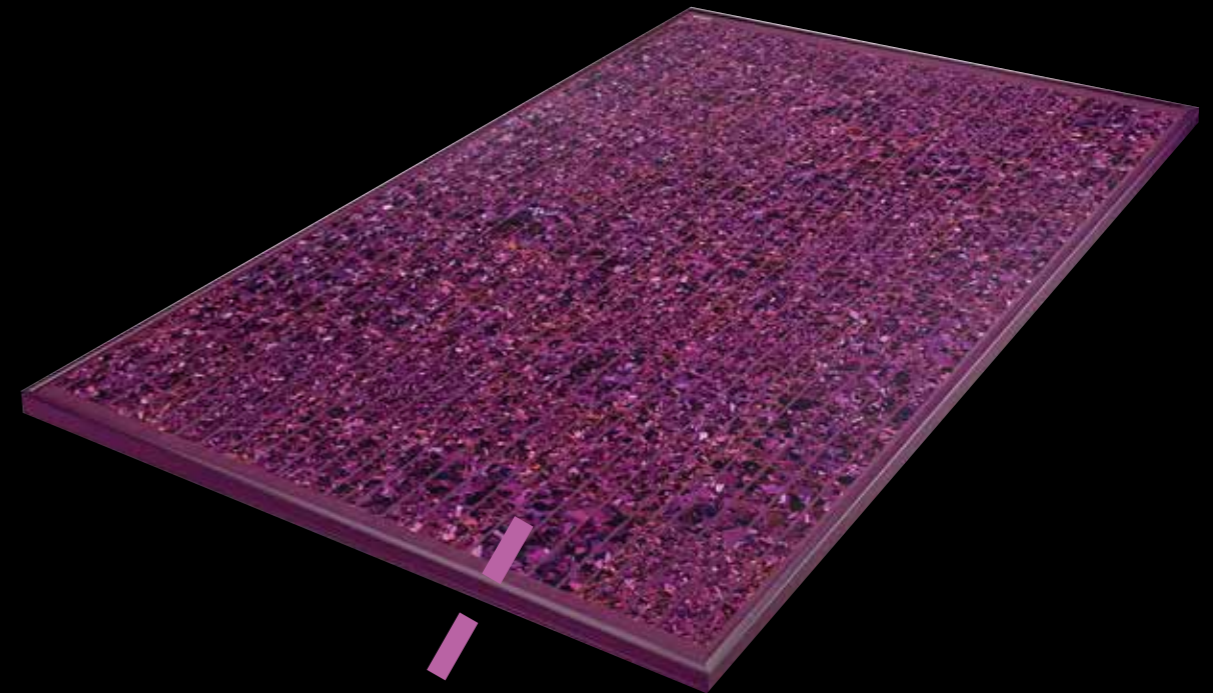
Invisible Cell®
TECHNOLOGY



The Purple Q.olor® module is a true décor
for the walls of your house.



class A cells
in polycrystalline silicon



+8,64%
energy in life cycle
compared to the market standard

Nh₃
ammonia test
subjected to the ammonia test

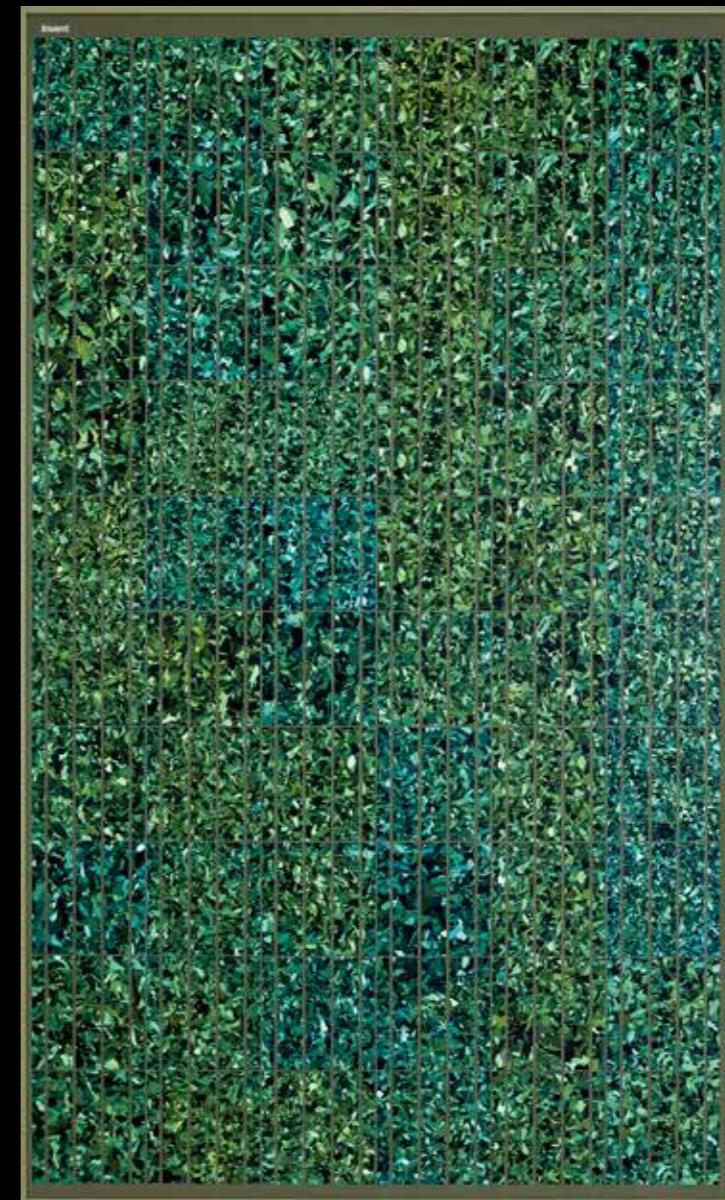
purple color



teal color

Teal is a particular colour, as it's relaxing and brings the sea and nature to mind. This colour makes Invent's Teal Q.olor® module perfect for settings where nature and technology merge superbly.

Invisible Cell®
TECHNOLOGY



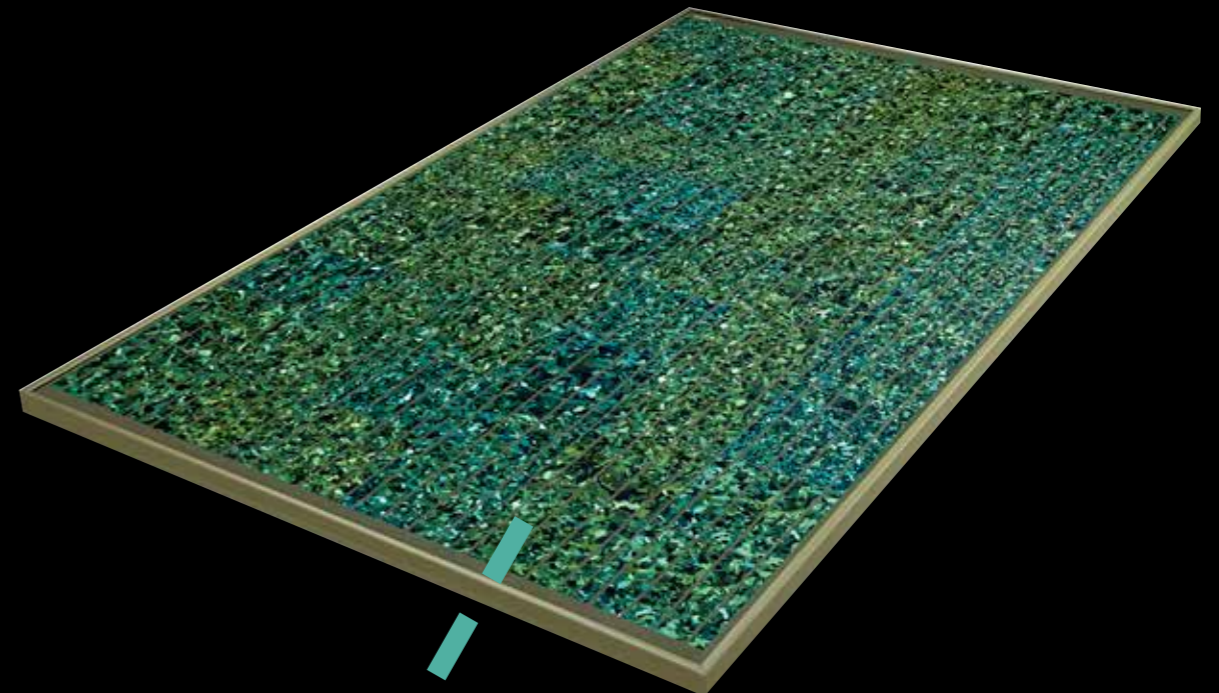
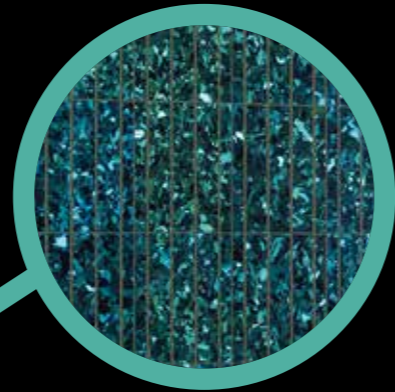
This module is also perfect for white walls for an excellent sustainable effect.



class A cells
in polycrystalline silicon

4mm
glass thickness
high transmittance glass

98%
power guaranteed
in the first year



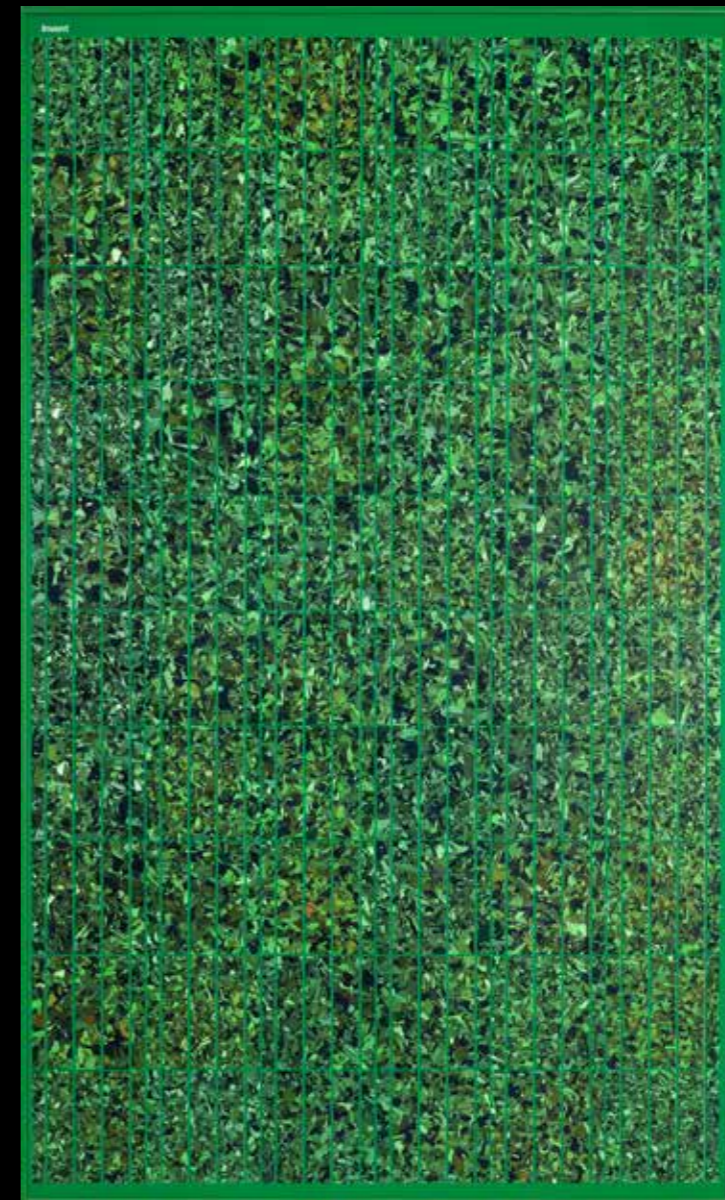
teal color



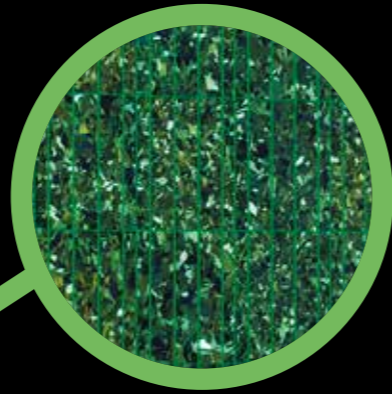
green color

Invent's Green Q.olor® module produces renewable energy and features an intense green colour and an extremely realistic foliage effect, which looks like tree fronds or a bush growing along a fence.

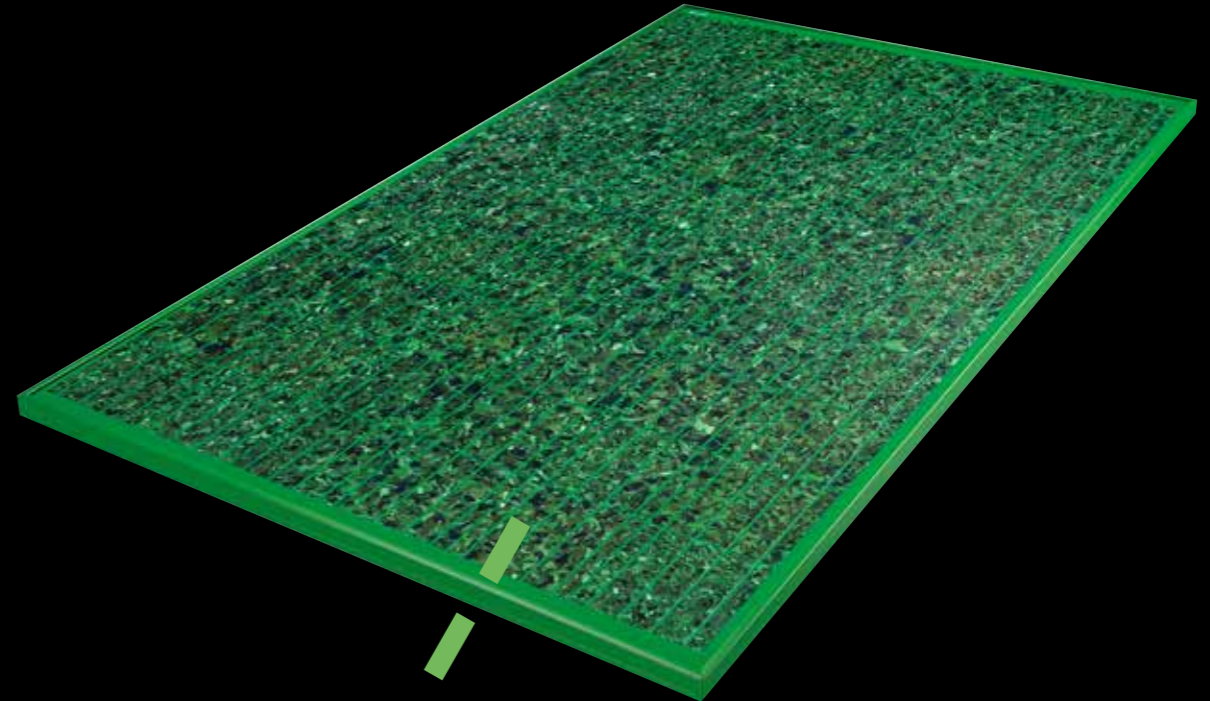
Invisible Cell®
TECHNOLOGY



The Green Q.olor® module can perfectly replace an ivy wall, combining functionality and aesthetics.



class A cells
in polycrystalline silicon



90%

power guaranteed
in the 15th year

±5%

power tolerance

green color



15120

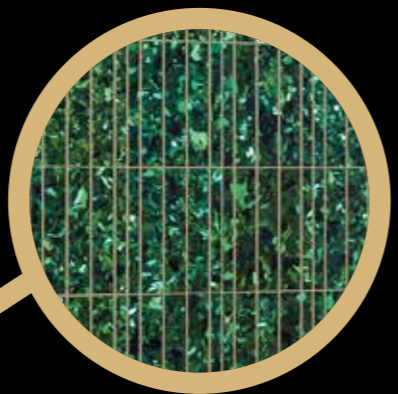
gold color

Gold is the colour of luxury and opulence. That's why the Gold Q.olor® modules embody the idea of a precious gem mounted on an architectural jewel, just like an emerald embedded in its golden cage.

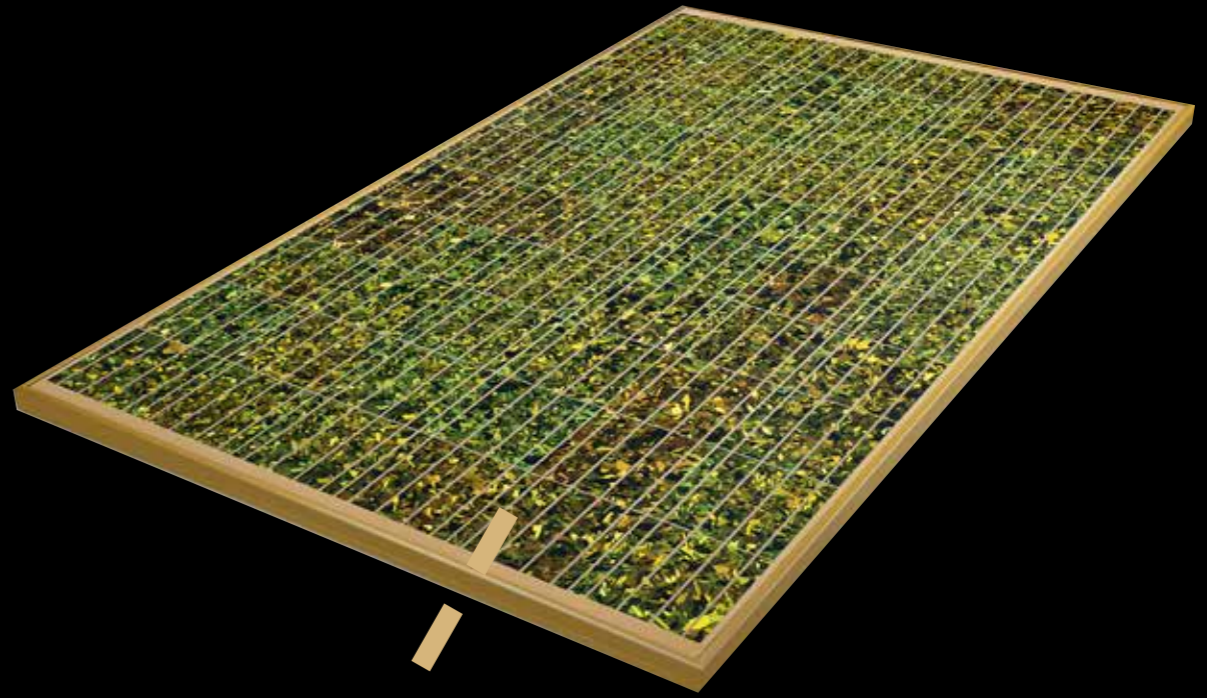
Invisible Cell®
TECHNOLOGY



Perfect for super modern settings that feature a touch of precious metals, where luminous, iridescent beauty merges with high yield in terms of power.



class A cells
in polycrystalline silicon



84,5%
power guaranteed
in the 25th year

+25%
glass thickness
compared to the market standard

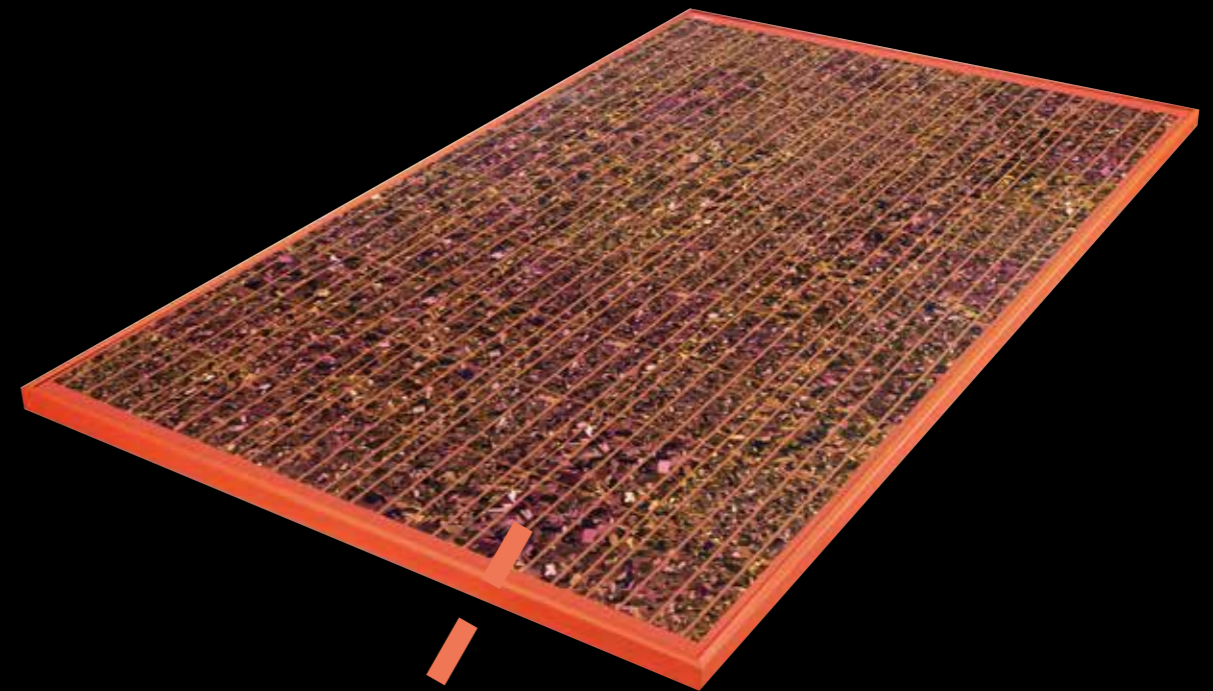
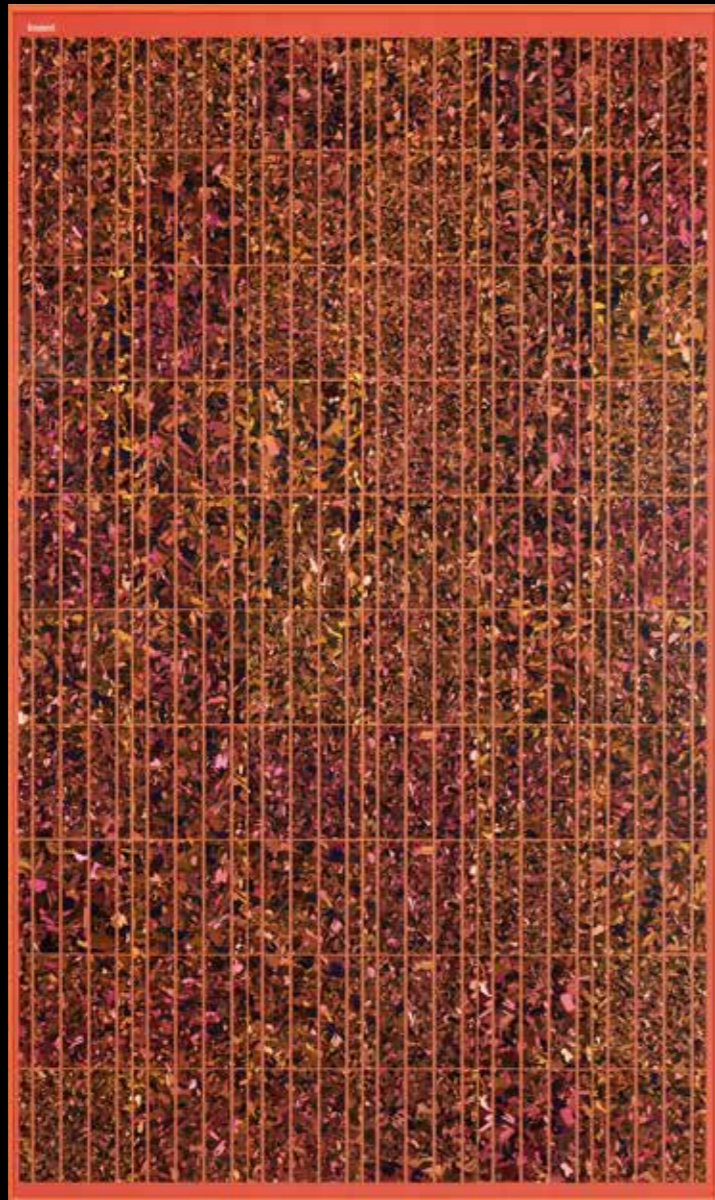
gold color



orange color

That's why these modules superbly match a technological or industrial setting featuring materials, such as cement.

Invisible Cell®
TECHNOLOGY



+20%

higher hail resistance
compared to the market standard

This colour goes perfectly with anthracite grey and metal. Ideal for cement roofs and walls to give a touch of light to dark or dull settings. Invent's Orange Q.olor® modules display an iridescent metal effect that hint at the brightness of copper.

orange color



dark purple

Invisible Cell®
TECHNOLOGY



Invent's Dark Purple Q.olor® modules combine different colours to ensure eccentric results. Whether mounted on a roof or a wall, the Dark Purple modules stand out for their bold colours, thus becoming a true design element.

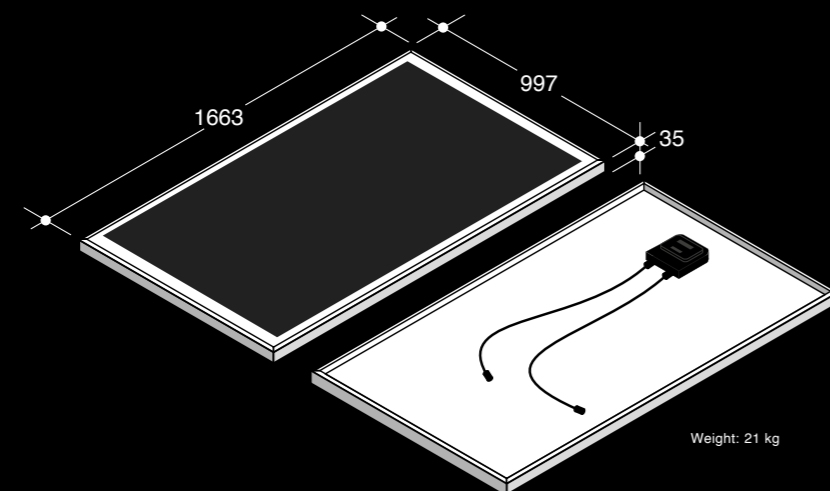


technical sheet



Up to 15 years of warranty on materials	25 years of warranty on power
InvisibleCell TECHNOLOGY	Power tolerance ±5%
+25% Glass Thickness High trasmittance 4mm	+50% Mechanical Load Subjected to a pressure of 7500 Pa
+20% Hail Resistance Subjected to hail of 30mm	PV CYCLE
Ammonia test	Salt spray test

dimensions



module data

Module's name		full colors		dinamic colors
		270	300	270
Power class	Wp	270	300	270
Yearly module production*	kWh	324	360	324
Efficiency	%	16,28	18,09	16,28
Cells typology		polycrystalline	monocrystalline	polycrystalline

technical data

	Vmp	31	32,2	31
Nominal tension				
Nominal power	A	8,71	9,31	8,71
No load voltage	Voc	38,4	39,6	38,4
Short-circuit current	A(Isc)	9,37	9,46	9,37
Full load voltage	V	1.000	1.000	1.000
Short-circuit current's temperature coefficient (α)	Pm	4,60 mA/°C	4,60 mA/°C	4,60 mA/°C
No load voltage's temperature coefficient (β)	Vo	-0,132 V/°C	-0,132 V/°C	-0,132 V/°C
Power's temperature coefficient (γ)	Voc	-1,021 W/°C	-1,021 W/°C	-1,021 W/°C
Power tolerance		±5%	±5%	±5%
NMOT		45,10°C	45,10°C	45,10°C

Values obtained under standard conditions: 1.000 W/m² - 25°C - AM 1,5

* Calculated based on the production of the photovoltaic modules in the North of Italy with optimal orientation/inclination estimating a value equal to 1.200 kWh/kWp

certifications

Invent photovoltaic modules are certified according to the European standard CEI EN 61215-1: 2017, CEI EN 61215-2: 2017, CEI EN 61215-1-1: 2016. Safety tests were performed according to CEI EN 61730-1: 2018, CEI EN 61730-2: 2018, IEC 61730-1: 2016, IEC 61730-2: 2016, EN 61730-1: 2018, EN 61730-2: 2018.

In the laboratory the modules successfully pass all tests demonstrating high resistance to different types of stress.



CEI EN 61215 (2017)

Hail resistance test

ice ball of 25mm launched at a speed of 23,0 m/s-1 directed to 11 points of impact. In addition, a simulation of an impact with energy equal to a ice ball of 30 mm of diameter was made.



CEI EN 61215 (2017)

Damp heat test

the module is put into operation with an ambient temperature of 85°C and relative humidity of 85%.



CEI EN 61215 (2017)

Mechanical load test

the module is subjected to a pressure of 5400 Pa. In addition, Invent tests the modules at a pressure of 7500Pa, that guarantees greater panel strenght.



CEI EN 61215 (2017)

Moisture and freezing test

the module is put into service with an ambient temperature of - 45°C and relative humidity of 85%.



CEI EN 61730-2 (2018)

Temperature test

5 hours exposure to 1.000 Wm



IEC62716 (2013)

Ammonia test



IEC61701 (2011)

Salt spray test



CEI EN 61215 (2017)

Thermal cycle test (50 and 200 cycles)

50 and 200 cycles from -40°C to +85°C with the supply current peak



IEC 60068-2-68

Desert sand storm test

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