



Flat solar panel

Rb-12 / Rb-17 / Rb-32 / Rb-51 / Rb-64 / Rb-86 / Rb-102 / Rb-216

ENERGY IN FREEDOM



More energy each day

Thanks to the use of the last generation IBC monocrystalline solar cells, which amplify the absorption spectrum.



Compact

Its high efficiency in photovoltaic conversion enable to reduce its size with respect to traditional solar panel technology.



Ultra resistance

Encapsulated with military quality technopolymers and the absence of rigid component such as glass.



Flexibility

One degree of flexibility, which enable robustness in its daily handling.



Light and thin

1/8 weight respect to standard glass panels. Just 1.5 mm thin.



High resistance to marine environment and outdoor



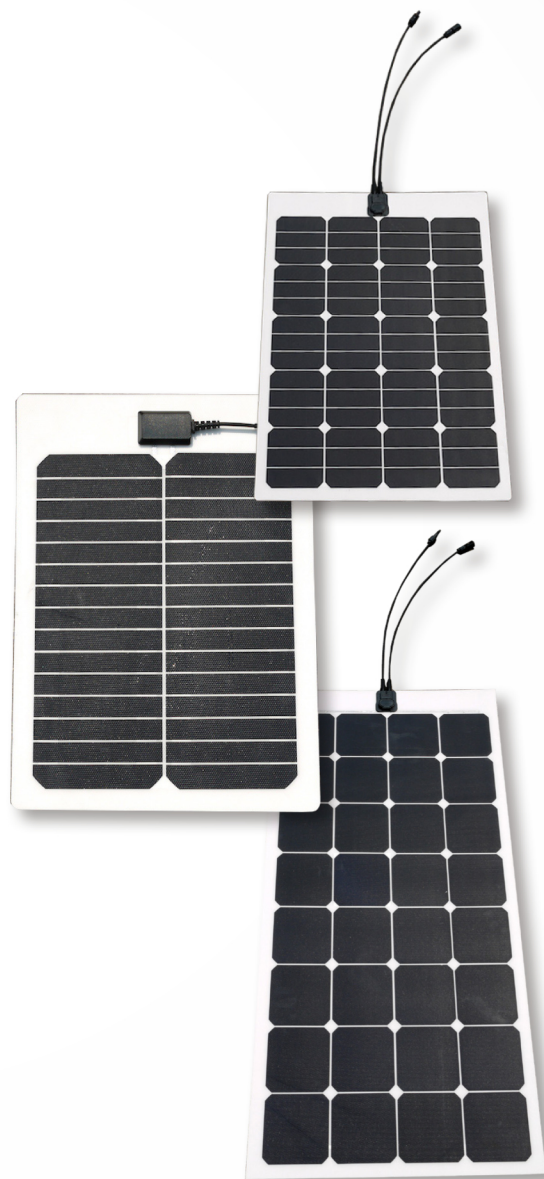
Easy to be integrated

Hook up everywhere such as at a tent or an awning using eyelets.



Lowlight performance

Its revolutionary technology enable to receive lots more energy in the infrared and ultraviolet band.



eneagrupo has developed a revolutionary technology thanks to IBC cells, which enable better characteristics than traditional solar cells:

To receive energy in an enlarged light spectrum, which acts in favor of lowlight conditions.

A better efficiency facing high temperatures.

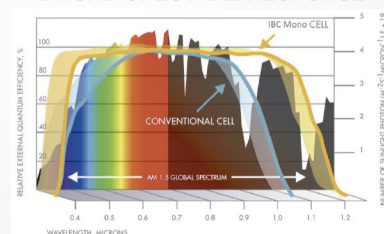
No degradation induced by the first exposure of the solar cells to the sun, which avoid the initial 3% efficiency loss at the first use.

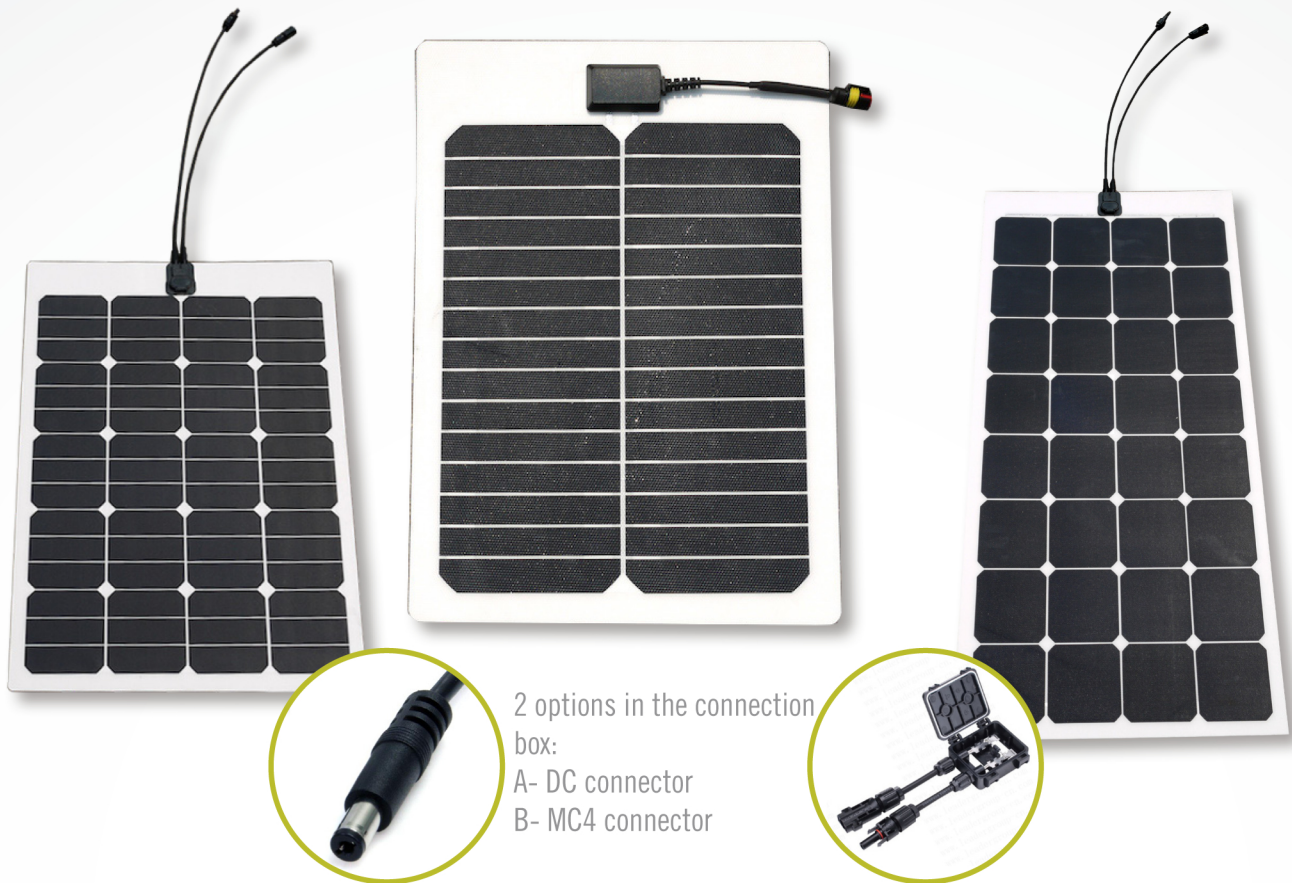
A longer lifetime thanks to the cells lower degradation year after year.

These products are made with technopolymers, which give them a high technology robustness and a weight of about 1/8 compared to traditional glass solar panel.

eneagrupo solar panels have one of the best efficiencies of the market reaching 24% in a very compact size.

BROAD SPECTRAL RESPONSE





2 options in the connection box:
 A- DC connector
 B- MC4 connector

TECHNICAL SPECIFICATIONS	RB-12	RB-17	RB-32	RB-51	RB-64	RB-86	RB-102	RB-216
P _{MAX}	12W	17W	32W	51.2W	64W	86W	102.4W	216W
V _{MPP}	6.72V	17.92V	16.8V	17.92V	16.8V	15.96V	17.92V	40.32V
I _{MPP}	1.78A	0.95A	1.90A	2.86A	3.81A	5.38A	5.71A	5.35A
V _{OC}	5.2V	21.44V	20.1V	21.44V	20.1V	18.76V	21.44V	48.24V
I _{SC}	2.0A	1.10A	2.02A	3.28A	4.38A	5.82A	6.57A	5.75A
SIZE (MM)	355x293	432x292	723x294	587x549	723x546	1924x303	1091x549	1583x815
WEIGHT (KG)	0.26	0.31	0.55	0.9	1.1	1.5	1.55	3.3
EFFICIENCY	24.3%	24.3%	24.3%	24.3%	24.3%	24.3%	24.3%	24.3%
CONNECTIONS	MC4	MC4	MC4	MC4	MC4	MC4	MC4	MC4

TEMPERATURE COEFFICIENTS

VCA (V)	-0,330%/°C
POT (WP)	-0,38%/°C
ICC (A)	+0,036%/°C
NOCT	45°C

LIMIT VALUES

SYSTEM VOLTAGE	600 V DC
PROTECTIVE DIODE	15 A
TEMPERATURE RANGE	-40° TO +90° C

Fixing options



Structural adhesive



Tenax buttons



Stainless steel eyelets



Zippers



Don't run out of Power