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**Solar Panel Guide  
Specification Data Sheet**

**Giocosolutions Srl  
GSP 65L-145  
GSP 130**

Also available on the web at  
[EnergyPal.com/giocosolutions-srl-solar-panels/gsp-130](http://EnergyPal.com/giocosolutions-srl-solar-panels/gsp-130)

# Flexible photovoltaic panels

POLYCRYSTALLINE

## ENERGY IN FREEDOM



### More energy each day

Thanks to the use of low metallization cells which allow a better efficiency of the panel



### Flexible

Adapt to all surfaces, even curves



### High resistance and Walk on panels

Possibility of walking on panels thanks to the use of high resiliency techno-polymers



### Microcracking managing

Thanks to the new G Wire technology with highly conductive silver alloy contacts



### Light & thin

1/8 weight respect to standard glass panels, just 1.5 mm thin



### High resistance to marine environment

Certified IEC 61701:2011 against salty mist



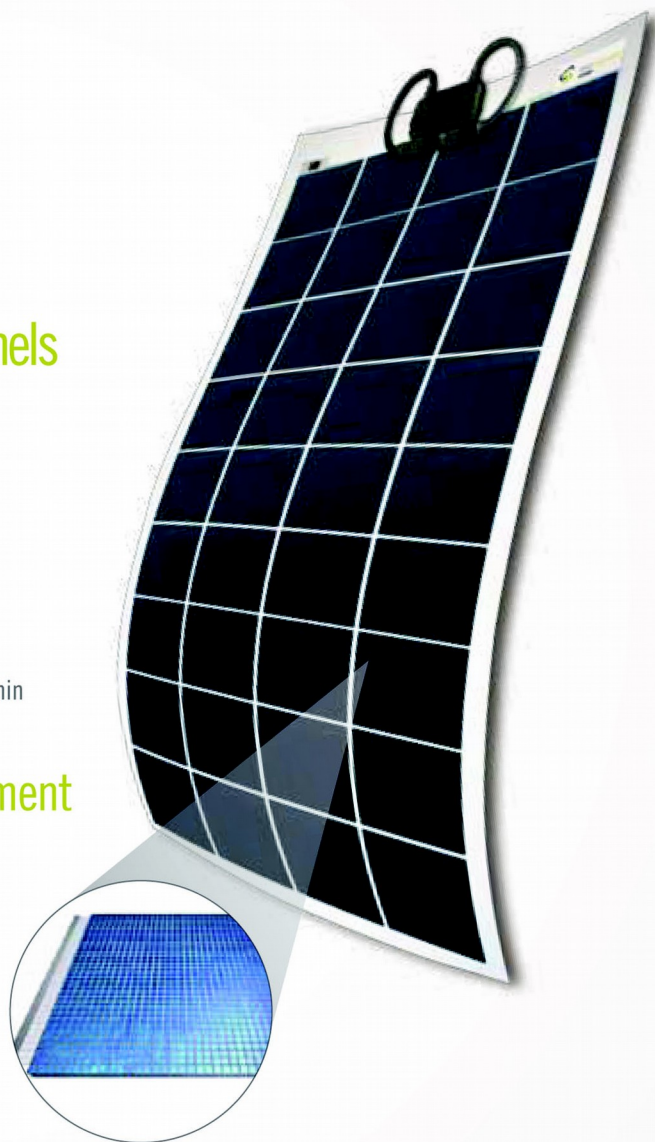
### Easy to be integrated

Using adhesive, eyelets, tenax and zip



### Made in Italy

Developed and produced by Giocosolutions



Giocosolutions has developed a type of flexible photovoltaic panel realized with a new intercontacts technology in highly conductive silver-alloy contacts; these products are made of techno- polymers which give them a higher efficiency and a weight of about 1/8 compared to the traditional glass panels.

The specific contacting methodology-together with the use of polycrystalline cells with high efficiency has led to realize panels with more energy every day.



IEC 61701:2011  
Saline mist



IEC 61215  
10.17



powered  
by KIWA



GIOCO SOLUTIONS®



[GIOCOSOLUTIONS.COM](http://GIOCOSOLUTIONS.COM)





Electrical characteristics	GSP 145	GSP 130	GSP 80 Q	GSP 73L	GSP 65Q	GSP 65L
V P <sub>MAX</sub> (V)	18,75	16,64	10,4	9,36	8,32	8,32
I P <sub>MAX</sub> (A)	7,87	7,87	7,87	7,87	7,87	7,87
P <sub>MAX</sub> (WATT)	147,36	131,0	81,87	73,68	65,50	65,50
V <sub>CA</sub> (V)	22,32	19,84	12,40	11,16	9,92	9,92
I <sub>CC</sub> (I)	8,16	8,16	8,16	8,16	8,16	8,16
EFFICIENCY %	14,38	14,22	13,89	13,94	13,58	13,86
Dimensions	GSP 145	GSP 130	GSP 80Q	GSP 73L	GSP 65Q	GSP 65L
H (mm)	1530	1375	890	1530	730	1375
L (mm)	680	680	680	360	680	360
S (mm)	1,5	1,5	1,5	1,5	1,5	1,5
WEIGHT (Kg)	2,60	2,31	1,45	1,34	1,21	1,21

#### TEMPERATURE COEFFICIENTS

V <sub>CA</sub> (V)	-0,330%/°C
P <sub>OT</sub> (WP)	-0,46%/°C
I <sub>CC</sub> (A)	+0,036%/°C
NOCT	42° C

#### LIMIT VALUES

SYSTEM VOLTAGE	600 V DC
OVER-CURRENT PROTECTION	15 A
TEMPERATURE RANGE	-40° TO +90° C

## Fixing options



Structural  
bi-adhesive



Tenax



Stainless  
steel eyelets



Zip

ON GRID  
Warranty



OFF GRID  
Warranty



Installation  
Manual



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