

ECLXXXP

PHOTOVOLTAIC MODULES

POLICRYSTALLINE 72 CELLS



PROPERTIES

Photovoltaic module manufactured with 72 high efficiency polycrystalline cells for grid-connected or stand-alone plants.

WARRANTY

90% rated power output for 10 years
80% rated power output for 25 years
10 year product warranty

CERTIFICATES

Modules certified according to:

EC-EN 61215-1:2016 / IEC-EN 61215-1-1:2016
IEC 61215-2:2016 – EN 61215-2:2017
IEC 61730-1:2016 – EN IEC 61730-1:2018
IEC 61730-2:2016 – EN IEC 61730-2:2018

STRUCTURAL PROPERTIES

Size LxWxH	1957 mm x 992 mm
Weight	21,5 kg
Cells type	72 polycrystalline silicon cells with high efficiency - M2
Ribbon	Bus bars of copper, tin and silver
Front glass	Tempered glass, 3,2 mm thickness
Encapsulation	EVA (Ethilene-vinyl acetate), UV stabilised
Backsheet	Multilayer polyester-based
Frame	Alluminium alloy EN AW-6060T6 anodized 15 microns, thickness 40 mm
Junction box	IP 67 waterproof junction box fitted with 3 bypass diodes for effettive protection against "hot spots"
Connectors	2 cables with section 4 mm with MC4 or other connector

CONDITION OF USE

Typical application	24 V DC
Maximum voltage	1500 V DC
Operating temperature	-40°C+85°C
Impact resistance to hail	Ø 28 mm at 86 km/h
Snow	551 kg/mq max
Application class	A, safety class II



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ELECTRICAL CHARACTERISTICS*

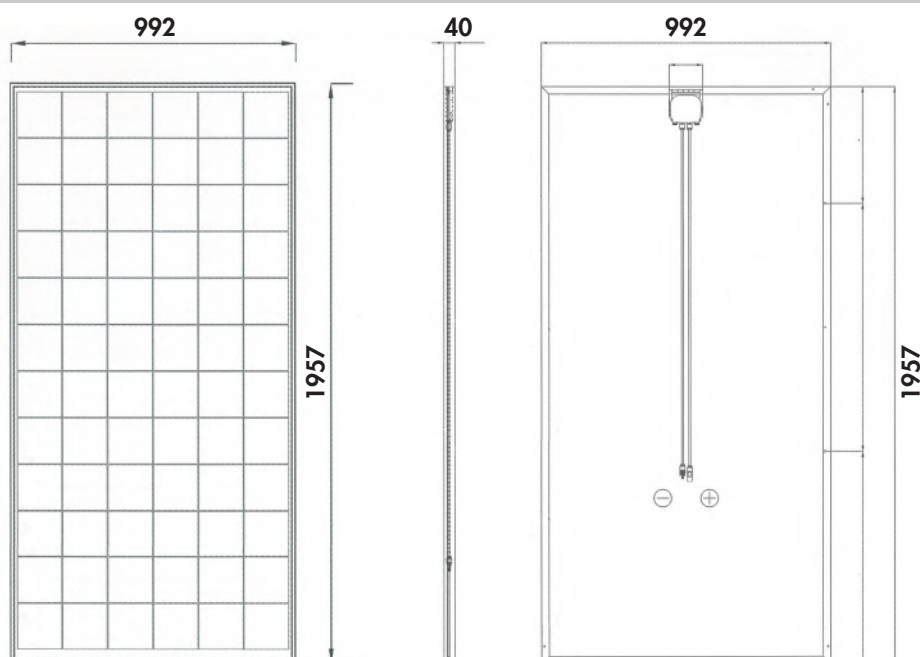
Model	ECL310P	ECL315P	ECL320P	ECL325P	ECL330P
Module power (Pmax)	310 Wp	315 Wp	320 Wp	325 Wp	330 Wp
Power tolerance	-0/+5 W	-0/+5 W	-0/+5 W	-0/+5 W	-0/+5 W
Maximum power voltage (Vmp)	37,00 V	37,30 V	37,53 V	37,76 V	38,00 V
Maximum power current (Imp)	8,42 A	8,46 A	8,55 A	8,64 A	8,73 A
Short circuit current (Isc)	8,92 A	9,03 A	9,12 A	9,21 A	9,30 A
Open circuit voltage (Voc)	45,00 V	45,35 V	45,46 V	45,57 V	45,68 V
Module efficiency	15,98%	16,22%	16,48%	16,74%	16,99%
Maximum series fuse	16 A	16 A	16 A	16 A	16 A
Maximum system voltage	1500 V DC(IEC)/1500 V DC(UL)				

*measurement conditions: the electrical specifications are measured under an irradiance level of 1000 W/mq, 1,5 Air mass Spectrum, cell temperature of 25°C.

OPERATING CHARACTERISTICS

		U.M.
Voc temperature coefficient	-0,40%	°C
Pmp temperature coefficient	-0,32%	°C
Isc temperature coefficient	+0,05%	°C
Nominal Operating Cell Temperature (NOCT)	45±2	°C

TECHNICAL DRAWING



Le dimensioni riportate nella scheda potranno essere variate senza preavviso a seguito di aggiornamento tecnico.

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