

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*

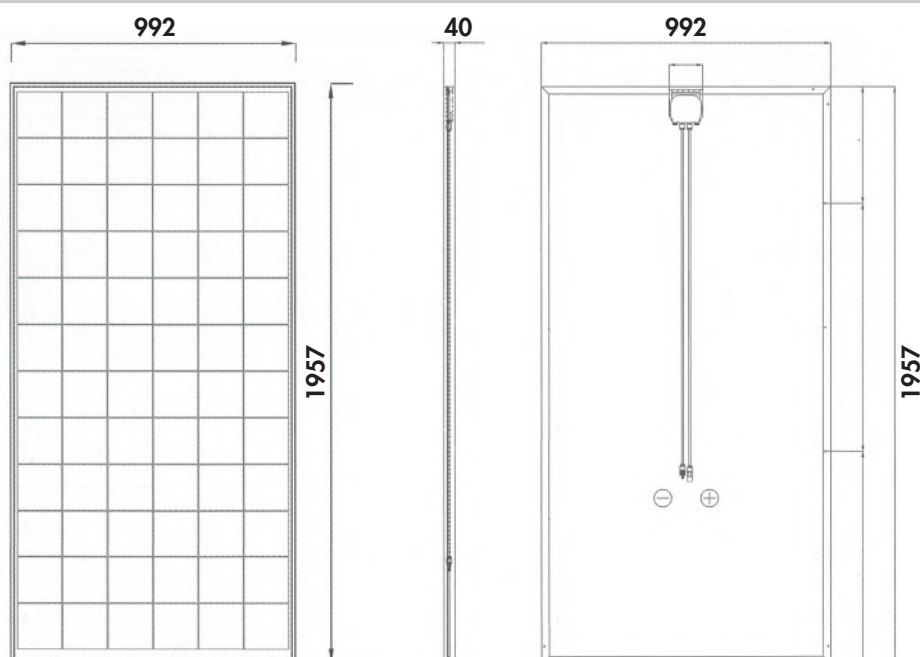
Model	ECL285P	ECL290P	ECL295P	ECL300P	ECL305P
Module power (Pmax)	285 Wp	290 Wp	295 Wp	300 Wp	305 Wp
Power tolerance	-0/+5 W	-0/+5 W	-0/+5 W	-0/+5 W	-0/+5 W
Maximum power voltage (Vmp)	35,91 V	36,03 V	36,14 V	36,24 V	36,35 V
Maximum power current (Imp)	7,93 A	8,05 A	8,17 A	8,28 A	8,38 A
Short circuit current (Isc)	8,49 A	8,59 A	8,69 A	8,78 A	8,87 A
Open circuit voltage (Voc)	44,69 V	44,81 V	44,93 V	45,05 V	45,16 V
Module efficiency	14,68%	14,93 %	15,19%	15,45%	15,71%
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.

ECLIPSE ITALIA srl

Registered office: 20121 Milano, Corso Venezia, 3 - Italy · Offices and production: 25078 Nozza di Vestone (BS) - Loc. Merlaro - Italy
Tel. +39 0365 870843 · Fax. +39 0365 870851 · P.IVA 06212530965 · www.eclipseitalia.com · info@eclipseitalia.com

