

ECLXXXM2

PHOTOVOLTAIC MODULES

MONOCRYSTALLINE 60 CELLS



PROPERTIES

Photovoltaic module manufactured with 60 high efficiency monocrystalline 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	1640 mm x 992 mm
Weight	19,5 kg
Cells type	60 monocrystalline 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*

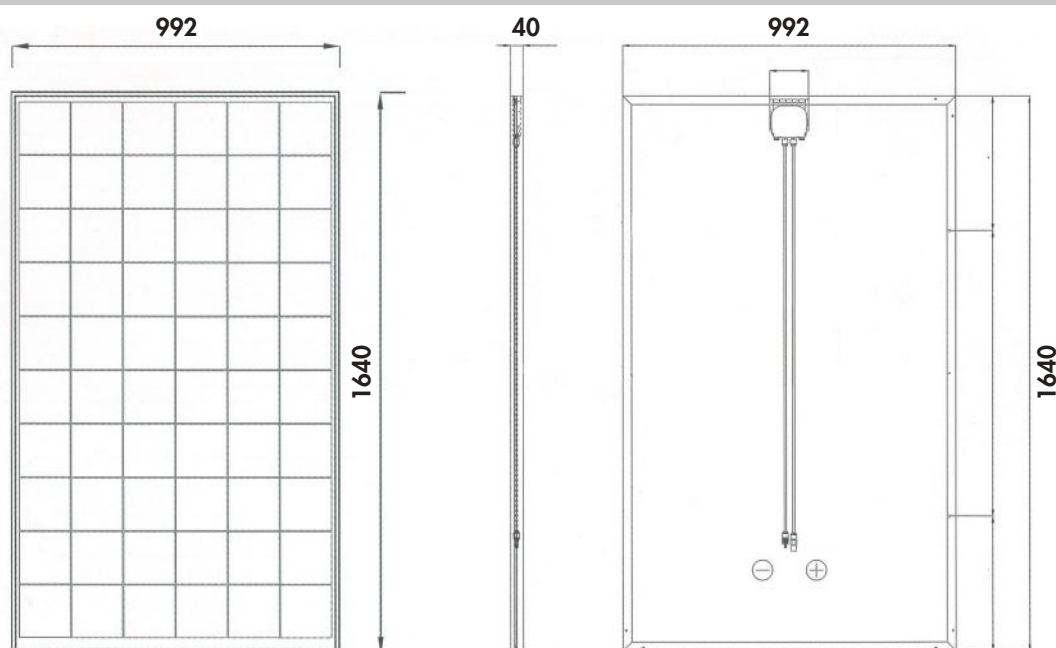
Model	ECL275m2	ECL280m2	ECL285m2	ECL290m2	ECL295m2
Module power (Pmax)	275 Wp	280 Wp	285 Wp	290 Wp	295 Wp
Power tolerance	-0/+5 W	-0/+5 W	-0/+5 W	-0/+5 W	-0/+5 W
Maximum power voltage (Vmp)	32,40 V	32,50 V	32,50 V	32,70 V	32,80 V
Maximum power current (Imp)	8,57 A	8,67 A	8,76 A	8,86 A	8,96 A
Short circuit current (Isc)	8,61 A	8,99 A	9,35 A	9,75 A	10,13 A
Open circuit voltage (Voc)	38,85 V	39,20 V	39,55 V	39,90 V	40,25 V
Module efficiency	16,90%	17,21 %	17,51%	17,82%	18,13%
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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