

# ECLXXM6HC PHOTOVOLTAIC MODULES MONOCRYSTALLINE 144 HALF CUT CELLS

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## PROPERTIES

Photovoltaic module manufactured with 144 high efficiency monocrystalline half cut 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	2094 mm x 1038 mm
Weight	23 kg
Cells type	144 monocrystalline silicon half cut cells with high efficiency - M6
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 35 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



# ECLXXM6HC

## PHOTOVOLTAIC MODULES

### MONOCRYSTALLINE

### 144 HALF CUT CELLS

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#### ELECTRICAL CHARACTERISTICS\*

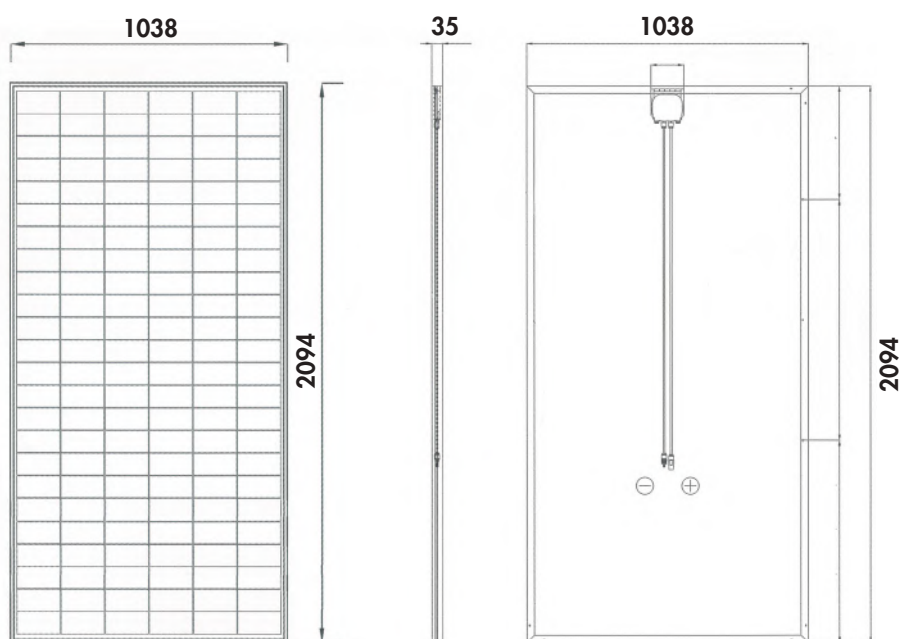
Model	ECL450M6HC	ECL455M6HC	ECL460M6HC
Module power (Pmax)	450 Wp	455 Wp	460 Wp
Power tolerance	-0/+5 W	-0/+5 W	-0/+5 W
Maximum power voltage (Vmp)	41,56 V	41,75 V	41,96 V
Maximum power current (Imp)	10,83 A	10,90 A	10,96 A
Short circuit current (Isc)	11,30 A	11,37 A	11,44 A
Open circuit voltage (Voc)	49,87 V	20,06 V	50,25 V
Module efficiency	20,70%	20,93%	21,16%
Maximum series fuse	20 A	20 A	20 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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