

ECLXXM10HC 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	2279 mm x 1134 mm
Weight	27,6 kg
Cells type	144 monocrystalline silicon half cut cells with high efficiency - M10
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



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ELECTRICAL CHARACTERISTICS*

Model	ECL540M10HC	ECL545M10HC	ECL550M10HC
Module power (Pmax)	540 Wp	545 Wp	550 Wp
Power tolerance	-0/+5 W	-0/+5 W	-0/+5 W
Maximum power voltage (Vmp)	41,96 V	42,12 V	42,28 V
Maximum power current (Imp)	12,87 A	12,94 A	13,01 A
Short circuit current (Isc)	13,76 A	13,83 A	13,90 A
Open circuit voltage (Voc)	50,04 V	50,18 V	50,32 V
Module efficiency	20,89%	21,08%	21,28%
Maximum series fuse	20 A	20 A	20 A
Maximum system voltage	1500 V DC(IEC)/1500 V DC(UL)		

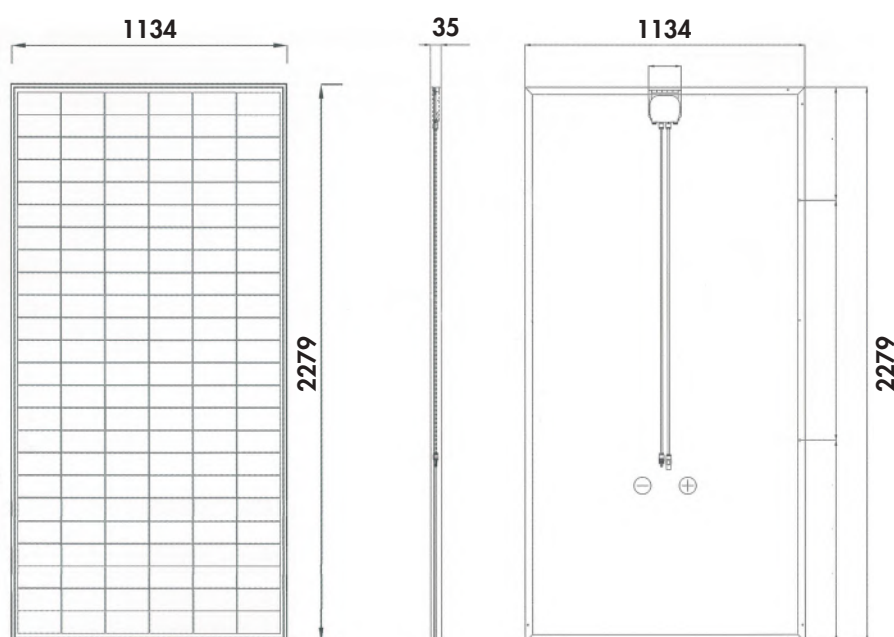
*measurement conditions: the electrical specifications are measured under an irradiance level of 1000 W/mq, 1,5 Air mass Spectrum, cell temperature of 25°C.

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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