

EN



OPEN 2XX-PM60 G2



# OPEN 2XX-PM60 G2

Cost Competitive Polycrystalline Technology

## Real Power

- Modules available from 250 to 270W
- Positive power tolerance of +5W
- Individual module tested on site
- 100% electroluminescence checked

## Robust Power

- Thick solar glass offers additional protection against natural elements.
- 3rd generation frame, made of high quality aluminum profile.

## Stable Power

- High quality solar cells.
- Tested for PID and LID
- Open Renewables quality and durability.

## European Engineering

- Module manufacturer since 1994
- Built exclusively with excellent materials, made in Europe

the four excellency  
cornerstones

Open your mind  
more flexibility  
and performance.



## Electrical Specifications

		Open 250-PM60	Open 255-PM60	Open 260-PM60	Open 265-PM60	Open 270-PM60	
Rated Power	[P <sub>n</sub> ]	250	255	260	265	270	[W <sub>p</sub> ]
Nominal Power	[P <sub>max</sub> ]	250	255	260	265	270	[W]
Tolerance on peak power	[Tol]	+5	+5	+5	+5	+5	[W]
Module efficiency	[η]	15,3	15,6	16,0	16,2	16,4	[%]
Max. system voltage	[U <sub>sys</sub> ]	1000	1000	1000	1000	1000	[V]
Peak power voltage	[U <sub>mpp</sub> ]	30,05	30,30	30,55	30,70	30,85	[V]
Peak power current	[I <sub>mpp</sub> ]	8,30	8,40	8,50	8,60	8,77	[A]
Open circuit voltage	[V <sub>oc</sub> ]	37,45	37,60	37,70	37,85	38,30	[V]
Short circuit current	[I <sub>sc</sub> ]	8,65	8,75	8,85	8,95	9,00	[A]
Max. reverse current	[I <sub>r</sub> ]	20	20	20	20	20	[A]

\* Air Mass AM 1.5, Irradiance 1000 W/m<sup>2</sup>, Cell temperature 25 °C

## Electrical Specifications

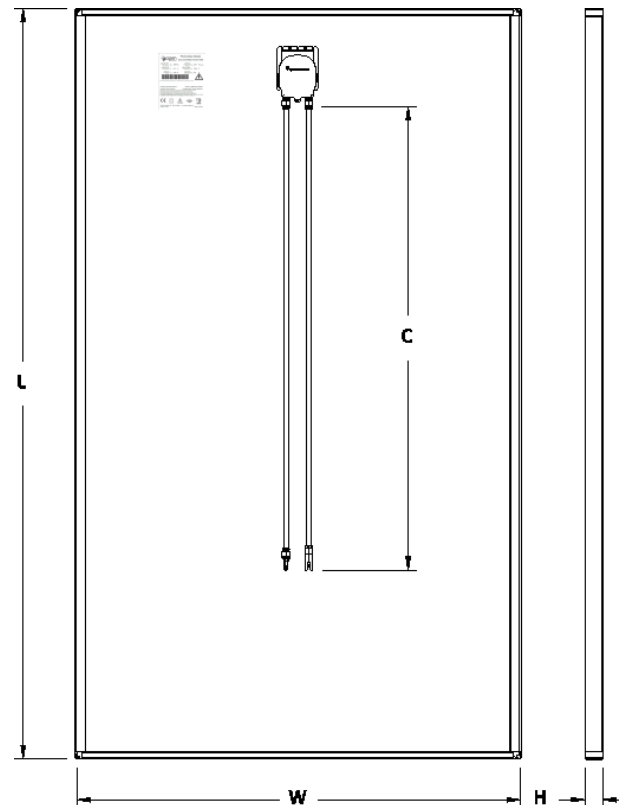
		Open 250-PM60	Open 255-PM60	Open 260-PM60	Open 265-PM60	Open 270-PM60	
Temperature	[NOCT]	48,0	48,0	48,0	48,0	48,0	[°C]
Mpp Power	[P <sub>noct</sub> ]	223	228	233	236	240	[W]
Open circuit voltage @ NOCT	[V <sub>ocn</sub> ]	34,61	34,75	34,84	34,98	35,12	[V]
Short circuit current @ NOCT	[I <sub>scn</sub> ]	8,73	8,83	8,93	9,03	9,12	[A]
Peak power voltage @ NOCT	[U <sub>mppn</sub> ]	27,77	28,00	28,23	28,37	28,51	[V]

\*\* At an irradiance of 0.8 kW/m<sup>2</sup>, 20°C ambient temperature and average wind speed of 1 m/s

## General Specifications

		Open 2XX-PM60
Lenght (L)	[mm]	1659,5 ±3
Width (W)	[mm]	988 ±3
Height (H)	[mm]	40
Weight	[Kg]	19 ±5%
Connector Type		MC4
Bypass diodes		3
Max. mechanical load		5400 Pa
Cable lenght (C)	[mm]	1000 / 1000 ±20
Cable cross section	[mm <sup>2</sup> ]	4
Safety class		II
Tecnology		Silício Policristalino
Operation temperature range	[°C]	-10°C ≤ T ≤ 45 °C
α (I <sub>sc</sub> )	[%/K]	0,0435
β (V <sub>oc</sub> )	[%/K]	-0,3292
Γ (P <sub>mpp</sub> )	[%/K]	-0,4459

Efficiency reduction from 1.000 to 200 W/m<sup>2</sup> is about 1%



### Electrical Equipment

Installation reserved to qualified professionals.  
This specification does not void the obligation from reading and understanding of the relevant manuals .



### Warranties

Ten years material and workmanship\*  
Guaranteed 90% minimum nominal power for ten years\*  
Guaranteed 80% minimum nominal power for twenty five years\*

\*Manufacturer's warranty conditions apply

# Your Benefit:



- Exclusive use of High Quality Materials from European TIER 1 Manufacturers
- Over 20 years experienced staff
- Full-tracking-system
- In-house research and development laboratories
- Process control oriented production
- Quality management systems as per ISO 9001, ISO 14001 and OSHAS 18001
- Product certified by TÜV Rheinland
- Products tailored for High energy yield under different real life conditions. Ask us for real data across the globe



IEC 61215  
IEC 61730

www.tuv.com  
ID 0000024674

## Certificates and Qualifications

- All Products are manufactured in Portugal at a ISO 9001, ISO 14001 and OSHAS 18001 certified plant.
- Open Renewables product Range:  
Monocrystalline: 95-300 Watt  
Polycrystalline: 160-280 Watt
- Designed and manufactured to meet the requirements of IEC 61215 e IEC 61730



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