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EnergyPal

Solar Panel Guide Specification Data Sheet

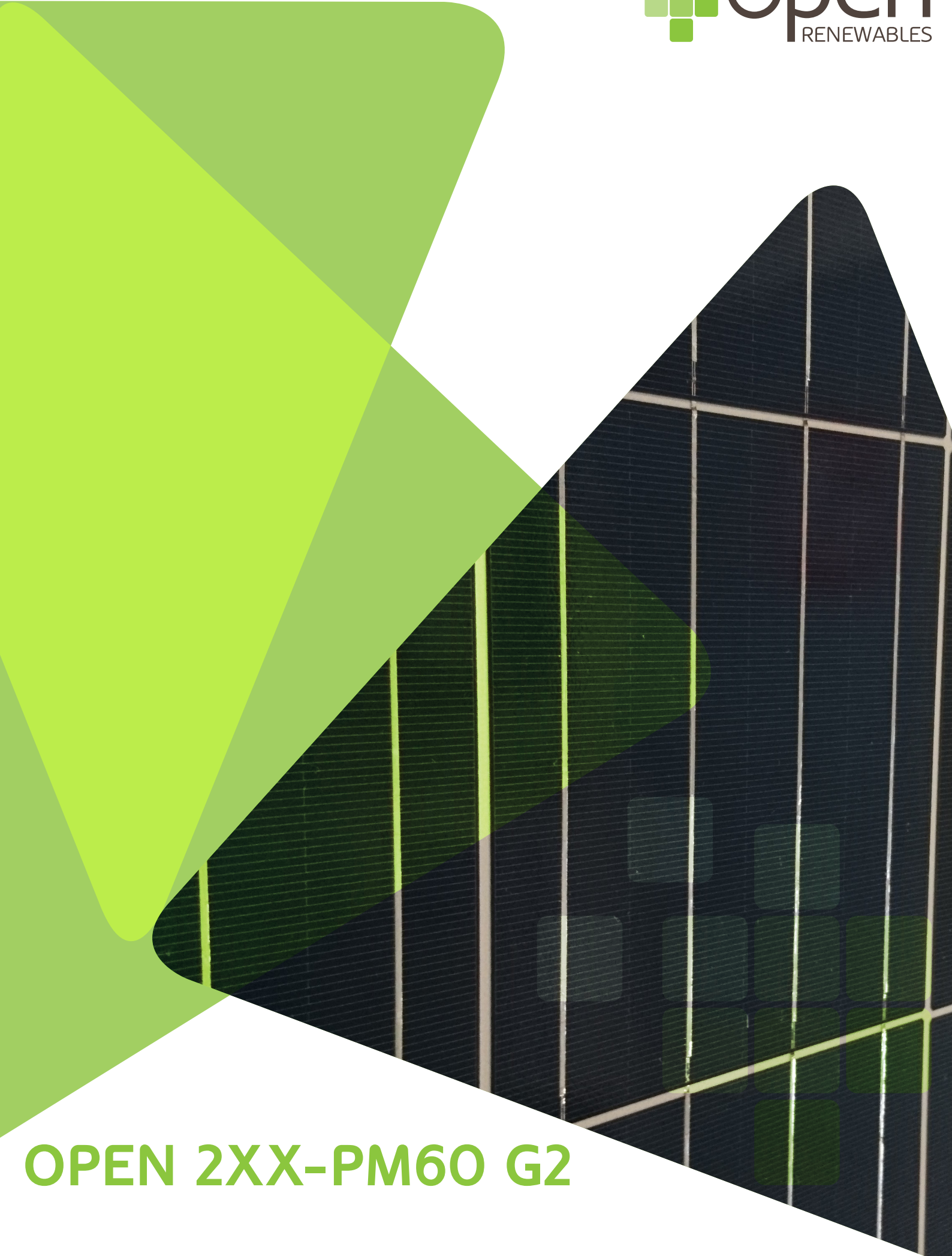
Open Renewables, SA

2xx-PM60

265-PM60

Also available on the web at
EnergyPal.com/open-renewables-sa-solar-panels/265-pm60

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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 _n]	250	255	260	265	270	[W _p]
Nominal Power	[P _{max}]	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 _{sys}]	1000	1000	1000	1000	1000	[V]
Peak power voltage	[U _{mpp}]	30,05	30,30	30,55	30,70	30,85	[V]
Peak power current	[I _{mpp}]	8,30	8,40	8,50	8,60	8,77	[A]
Open circuit voltage	[V _{oc}]	37,45	37,60	37,70	37,85	38,30	[V]
Short circuit current	[I _{sc}]	8,65	8,75	8,85	8,95	9,00	[A]
Max. reverse current	[I _r]	20	20	20	20	20	[A]

* Air Mass AM 1.5, Irradiance 1000 W/m², Cell temperature 25 °C

Electrical Specifications

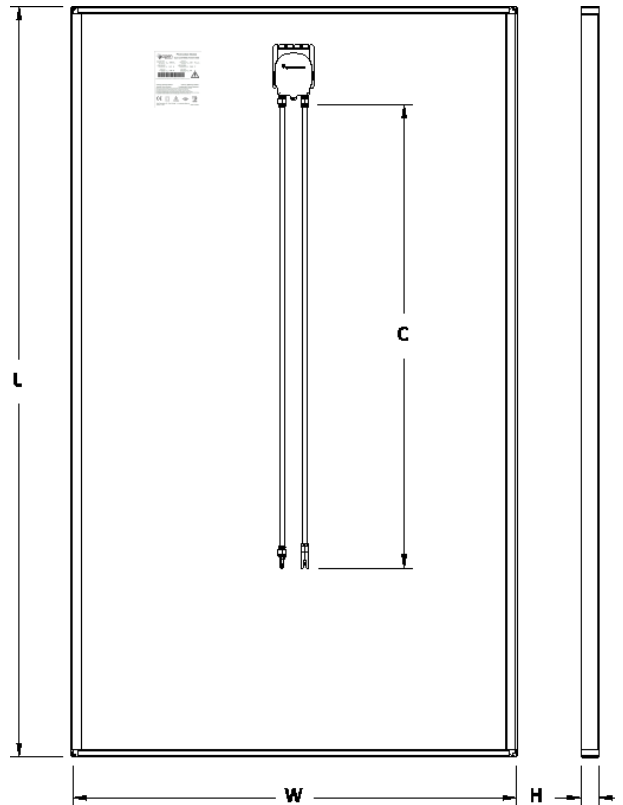
		Open 250-PM60	Open 255-PM60	Open 260-PM60	Open 265-PM60	Open 270-PM60	
Temperature	[NOCT]	48,0	48,0	48,0	48,0	48,0	[°C]
Mpp Power	[P _{noct}]	223	228	233	236	240	[W]
Open circuit voltage @ NOCT	[V _{ocn}]	34,61	34,75	34,84	34,98	35,12	[V]
Short circuit current @ NOCT	[I _{scn}]	8,73	8,83	8,93	9,03	9,12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

** At an irradiance of 0.8 kW/m², 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 ²]	4
Safety class		II
Tecnology		Silício Policristalino
Operation temperature range	[°C]	-10°C ≤ T ≤ 45 °C
α (I _{sc})	[%/K]	0,0435
β (V _{oc})	[%/K]	-0,3292
Γ (P _{mpp})	[%/K]	-0,4459

Efficiency reduction from 1.000 to 200 W/m² 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.



PID Tested !

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



Open Renewables, S.A.

Rua Anibal Tavares 11

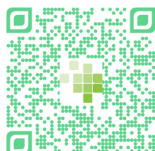
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Certificates and Qualifications

- 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
Policrystalline: 160-280 Watt
- Designed and manufactured to meet the requirements of IEC 61215 e IEC 61730

Due to continuous research and product improvement, the specifications in this Product Information Sheet are subject to change without notice. Specifications can vary slightly. For installation and operation instructions, please see the applicable manuals. No rights can be derived from this Product Information Sheet and Open Renewables® assumes no liability whatsoever connected to or resulting from the use of any information.