

Photowatt®

PW60MAX-CB-XF

SUPER HIGH POWER BIFACIAL POLY PERC MODULE

Thanks to Photowatt's Crystal Advanced®-PERC cell technology and extensive know-how in the manufacture of double-glass modules, we have developed a new generation of high-efficiency bifacial modules up to 585 Wp. Photowatt® has been a pioneer in the solar energy industry for 40 years.

545 - 585 Wp

Typical power

20.7 %*

Typical efficiency

120 demi-cellules

Multicrystalline module

CO2

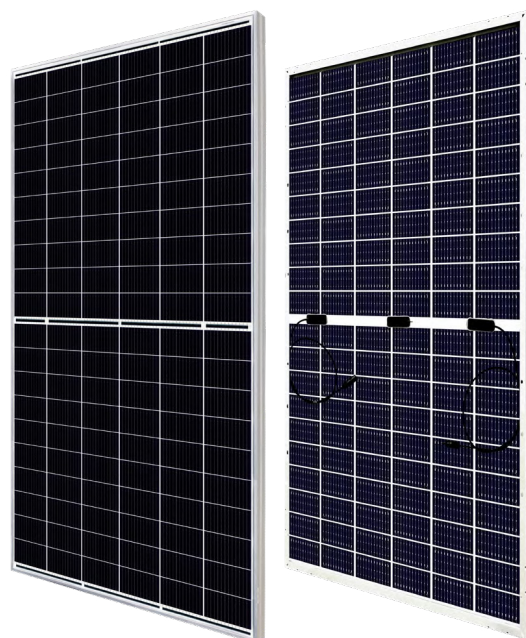
Low-carbon footprint

0/+5 Wc

Power tolerance

5400 Pa

Load resistance



French know-how

- Since 1979, our know-how has been evolving to meet market requirements, always manufacturing high performance, high quality and environmentally responsible products.



Environmental standards

- Priority over environmental requirements by limiting the carbon footprint
- Recycling of used panels (Photowatt is co-founder of Soren)

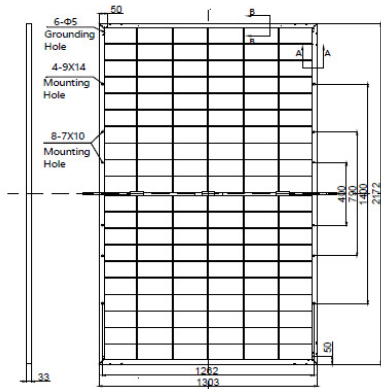


Durability and performance

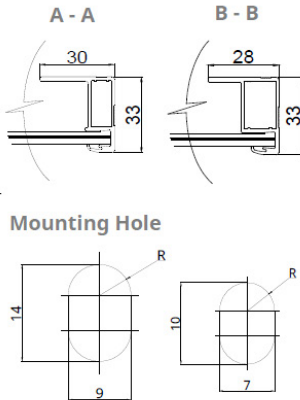
- Modules certified by international organizations (VDE)
- Better performance thanks to anti-reflective glass
- Cells sorted by reverse current and shunt resistance
- Better power thanks to the spacing uniform and optimized between cells

* excluding potential gains from bifaciality

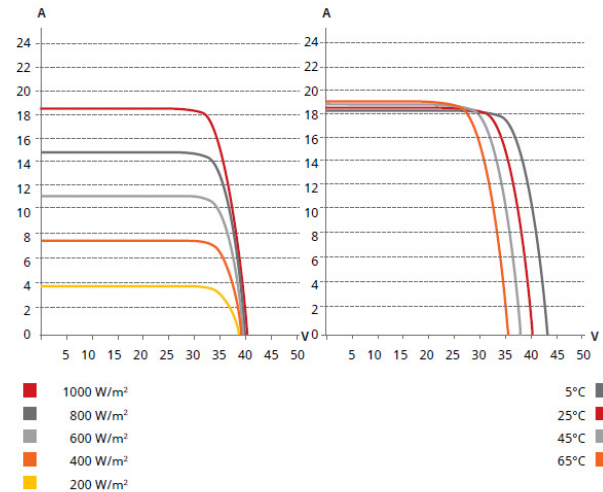
Rear View



Frame Cross Section



I/V CURVES AT LOW IRRADIANCES AND DIFFERENT TEMPERATURES



MECHANICAL CHARACTERISTICS

Cell type	Multicrystalline
Module size	2172 x 1303 x 33 mm
Cells number	120 [2 x (10 x 6)]
Module weight	34.5 kg (76.1 lbs)
Front glass	2.0 mm heat strengthened glass with antireflective coating
Back Glass	2.0 mm heat strengthened glass
Frame	Anodized aluminium alloy
J-Box	IP68, 3 diodes
Cable Length	Customized length ¹
Connector	T4 series or MC4-EVO2 or H4 UTX
Per palette	33 pieces
Per Container (40'HQ)	594 pieces or 528 pieces (only for US)

¹ For detailed information, please contact your local EDF ENR PWT sales and technical representatives.

OPERATING CONDITIONS

Operating Temperature	-40°C à +85°C
High resistance to extreme weather conditions	5400 Pa (snow) 2400 Pa (wind)
Max. System Voltage	1500 V (IEC/UL) or 1000 V (IEC/UL)
Module Fire Performance	Type 29 (UL 61730) or Class C (IEC 61730)
Max. Series Fuse Rating	35 A
Application Classification	Class A
Power Bifaciality ²	70%

² Power Bifaciality = $P_{max_{back}} / P_{max_{total}}$, both $P_{max_{back}}$ and $P_{max_{total}}$ are tested under STC, Bifaciality Tolerance: $\pm 5\%$

TEMPERATURE CHARACTERISTICS ⁷

Nominal Module Operating Temperature	°C	41 (± 3 °C)
Temperature Coefficient (Pmax)	γ	-0.34 %/°C
Temperature Coefficient (Voc)	β	-0.26 %/°C
Temperature Coefficient (Isc)	α	0.05 %/°C

⁷ Avec 1000 W/m²; température de 25°C; spectre AM 1,5

WARRANTY

Product warranty	10 years
Linear power guarantee ⁴	30 years

⁴ Refer to the general conditions of guarantee

ELECTRICAL DATA (STC⁵)

	Nominal Max. Power (Pmax)	Opt. Operating Voltage (Vmp)	Opt. Operating Current (Imp)	Open Circuit Voltage (Voc)	Short Circuit Current (Isc)	Module Efficiency
PW60MAX-CB-XF 545	545	32.7 V	16.69 A	39.1 V	17.92 A	19.1%
Bifacial Gain ⁶	5%	572	32.7 V	17,52 A	18,82 A	20,1%
	10%	600	32.7 V	18,36 A	19,71 A	21,0%
	20%	654	32.7 V	20,03 A	21,50 A	22,9%
PW60MAX-CB-XF 555	555	33.1 V	16.79 A	39.5 V	18.02 A	19.5%
Bifacial Gain ⁶	5%	583	33.1 V	17,63 A	18,92 A	20,5%
	10%	611	33.1 V	18,47 A	19,82 A	21,5%
	20%	666	33.1 V	20,15 A	21,62 A	23,4%
PW60MAX-CB-XF 565	565	33.5 V	16.88 A	39.9 V	18.12 A	19.9%
Bifacial Gain ⁶	5%	593	33.5 V	17,72 A	19,11 A	20,9%
	10%	622	33.5 V	18,57 A	20,02 A	21,9%
	20%	678	33.5 V	20,26 A	21,84 A	23,9%
PW60MAX-CB-XF 575	575	33.9 V	16.97 A	40.3 V	18.22 A	20.3%
Bifacial Gain ⁶	5%	604	33.9 V	17,82 A	19,13 A	21,3%
	10%	633	33.9 V	18,67 A	20,04 A	22,3%
	20%	690	33.9 V	20,36 A	21,86 A	24,4%
PW60MAX-CB-XF 585	585	34.3 V	17.06 A	40.7 V	18.32 A	20.7%
Bifacial Gain ⁶	5%	614	34.3 V	17,91 A	19,24 A	21,7%
	10%	644	34.3 V	18,77 A	20,15 A	22,8%
	20%	702	34.3 V	20,47 A	21,98 A	24,8%

⁵ STC : 1000 W/m²; spectre AM 1,5; cell temperature of 25°C. ⁶ Bifacial Gain: The additional gain from the back side compared to the power of the front side at the standard test condition. It depends on mounting (structure, height, tilt angle etc.) and albedo of the ground.

ELECTRICAL DATA (NMOT³)

	Nominal Max. Power (Pmax)	Opt. Operating Voltage (Vmp)	Opt. Operating Current (Imp)	Open Circuit Voltage (Voc)	Short Circuit Current (Isc)
PW60MAX-CB-XF 545	407 W	30.7 V	13.34 A	37.7 V	14.45 A
PW60MAX-CB-XF 555	415 W	31.1 V	13.42 A	37.9 V	14.53 A
PW60MAX-CB-XF 565	423 W	31.5 V	13.49 A	38.1 V	14.61 A
PW60MAX-CB-XF 575	431 W	31.9 V	13.56 A	38.3 V	14.69 A
PW60MAX-CB-XF 585	439 W	32.2 V	13.64 A	38.5 V	14.77 A

³ Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

