

Photowatt®

PW66MAX-CB-XF

SUPER HIGH POWER BIFACIAL POLY PERC MODULE

Thanks to the bifacial 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 660 Wp. Photowatt® has been a pioneer in the solar energy industry for 40 years.

600-660 Wp

Typical power

21.3 %*

Typical efficiency

132 half-cells

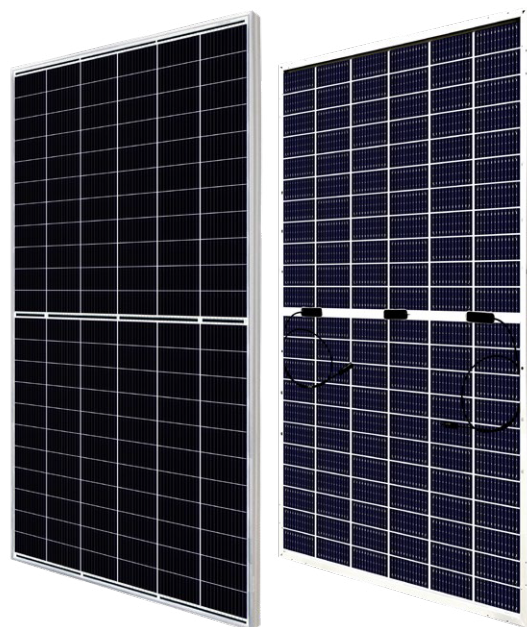
Multicrystalline module

CO2

Low-carbon footprint

0/+5 Wp

Power tolerance



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



Environmental standards

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

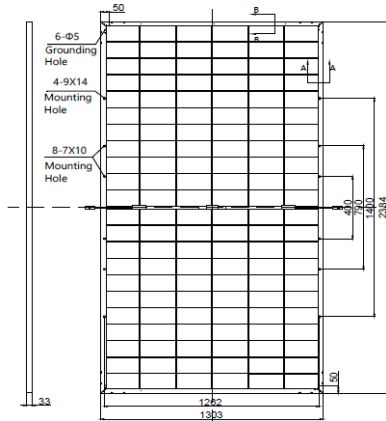


Highly resistant and light framing

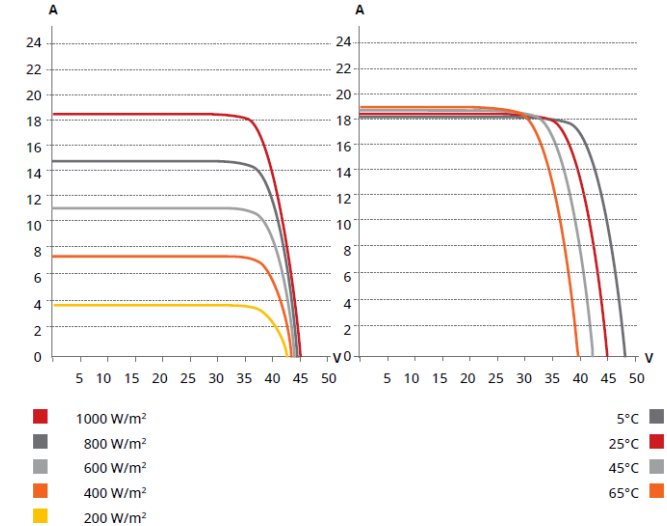
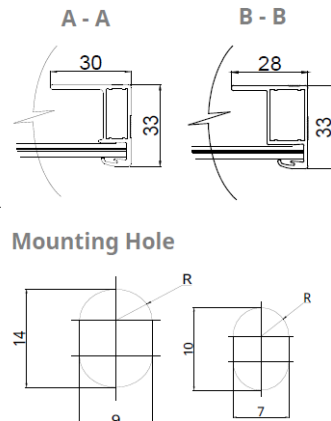
- Aluminum frame for resistance to extreme climatic conditions (5400Pa)
- Frost resistant frame
- Weight of module for easy handling

* excluding potential gains from bifaciality

Rear View



Frame Cross Section



MECHANICAL CHARACTERISTICS

Cell type	Multicrystalline
Module size	2384 x 1303 x 35 mm
Cells number	132 [2 x (11 x 6)]
Module weight	37.8 kg (83.3lbs)
Front / 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 / 462 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 = Pmaxrear / Pmaxfront, both Pmaxrear and Pmaxfront are tested under STC, Bifaciality Tolerance: ± 5 %

ELECTRICAL DATA (NMOT³)

	Nominal Max. Power (Pmax)	Opt. Operating Voltage (Vmp)	Opt. Operating Current (Imp)	Open Circuit Voltage (Voc)	Short Circuit Current (Isc)
PW66MAX-CB-XF 600	448 W	33.4 V	13.42 A	40.4 V	14.49 A
PW66MAX-CB-XF 610	456 W	33.8 V	13.48 A	40.8 V	14.56 A
PW66MAX-CB-XF 620	464 W	34.2 V	13.54 A	41.2 V	14.63 A
PW66MAX-CB-XF 630	471 W	34.6 V	13.60 A	41.6 V	14.70 A
PW66MAX-CB-XF 640	480 W	35.2 V	13.64 A	42.2 V	14.77 A
PW66MAX-CB-XF 650	487 W	35.5 V	13.74 A	42.5 V	14.83 A
PW66MAX-CB-XF 660	495 W	35.8 V	13.78 A	42.9 V	14.90 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.

TEMPERATURE CHARACTERISTICS⁷

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 ; temperature of 25°C ; spectre AM 1,5

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
PW66MAX-CB-XF 600	600 W	35.9 V	16.75 A	43.0 V	17.99 A	19.0 %
Bifacial Gain ⁶	5 %	630 W	35.9 V	17.58 A	43.0 V	19.95 %
	10 %	660 W	35.9 V	18.42 A	43.0 V	20.9 %
	20 %	720 W	35.9 V	20.1 A	43.0 V	22.8 %
PW66MAX-CB-XF 610	610 W	36.3 V	16.83 A	43.4 V	18.07 A	19.4 %
Bifacial Gain ⁶	5 %	640 W	36.3 V	17.67 A	43.4 V	20.37 %
	10 %	671 W	36.3 V	18.51 A	43.4 V	21.34 %
	20 %	732 W	36.3 V	20.19 A	43.4 V	23.28 %
PW66MAX-CB-XF 620	620 W	36.7 V	16.91 A	43.8 V	18.15 A	19.8 %
Bifacial Gain ⁶	5 %	651 W	36.7 V	17.75 A	43.8 V	20.79 %
	10 %	682 W	36.7 V	18.60 A	43.8 V	21.78 %
	20 %	744 W	36.7 V	20.29 A	43.8 V	23.76 %
PW66MAX-CB-XF 630	630 W	37.1 V	16.99 A	44.2 V	18.23 A	20.2 %
Bifacial Gain ⁶	5 %	661 W	37.1 V	17.83 A	44.2 V	21.21 %
	10 %	693 W	37.1 V	18.68 A	44.2 V	22.22 %
	20 %	756 W	37.1 V	20.38 A	44.2 V	24.24 %
PW66MAX-CB-XF 640	640 W	37.5 V	17.07 A	44.6 V	18.31 A	20.6 %
Bifacial Gain ⁶	5 %	672 W	37.5 V	17.92 A	44.6 V	21.6 %
	10 %	704 W	37.5 V	18.78 A	44.6 V	22.7 %
	20 %	768 W	37.5 V	20.48 A	44.6 V	24.7 %
PW66MAX-CB-XF 650	650 W	37.9 V	17.16 A	45.0 V	18.39 A	20.9 %
Bifacial Gain ⁶	5 %	683 W	37.9 V	18.03 A	45.0 V	22.0 %
	10 %	715 W	37.9 V	18.88 A	45.0 V	23.0 %
	20 %	780 W	37.9 V	20.59 A	45.0 V	25.1 %
PW66MAX-CB-XF 660	660 W	38.3 V	17.24 A	45.4 V	18.47 A	21.3 %
Bifacial Gain ⁶	5 %	693 W	38.3 V	18.20 A	45.4 V	22.4 %
	10 %	726 W	38.3 V	18.98 A	45.4 V	23.3 %
	20 %	792 W	38.3 V	20.69 A	45.4 V	25.5 %

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.

WARRANTY

Product warranty	10 years
Linear power guarantee ⁴	30 years

⁴ Refer to the general conditions of guarantee

QUALITY CERTIFICATES

MANAGEMENT



PRODUCT



IEC 61215 • IEC 61730
IEC 61701 • IEC 62716

