Photowatt®

PW72HT-CB-XF

NEW GENERATION BIFACIAL MODULE

With Photowatt's industry leading bifacial cell technology and extensive knowhow in double glass module manufacturing, we have now developed a new generation of high efficiency bifacial modules. Bifacial modules will greatly increase solar system power generation, reducing system BOS cost, hence, lower LCOE.

375-350 Wc
Typical power

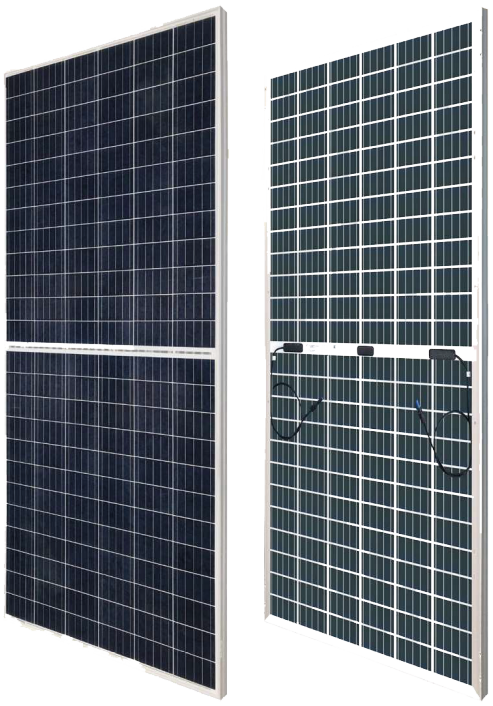
18.7 %*
Typical efficiency

144 half-cells
Multicristalline module

CO2
Low-carbon

0/+5 Wc
Power tolerance

* without potential bifacial gain



* 5BB and MBB modules will be provided

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

Highly resistant and light framing

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

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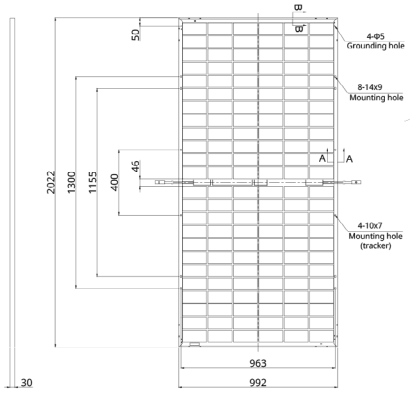
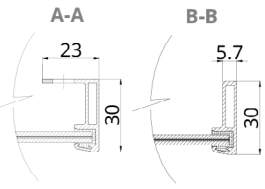
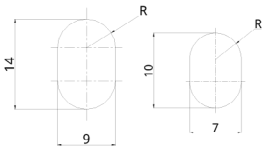
Rear View



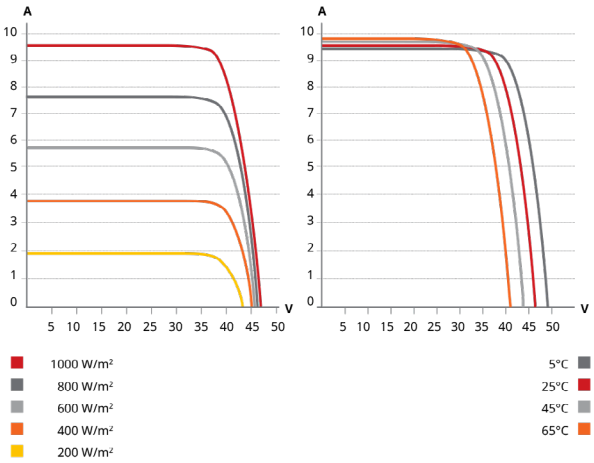
Frame Cross Section



Mounting Hole



I/V CURVES AT LOW IRRADIANCES AND DIFFERENT TEMPERATURES



MECHANICAL CHARACTERISTICS

Cell type	Multicristalline
Module size	2022 x 992 x 30 mm (79.6 x 39.1 x 1.18 in)
Cells number	144 [2x (12 x 6)]
Module weight	25.7 kg (56.7 lbs)
Front cover	2.0 mm heat-strengthened glass
Frame material	Anodized aluminum alloy
J-BOX	IP 68, 3 bypass diodes
Solar cable	4.0 mm² (IEC), 12 AWG (UL)
Cable Length (Including Connector)	Portrait: 400 mm (15.7 in) (+) / 280 mm (11.0 in) (-); landscape: 1400 mm (55.1 in); leap-frog connection: 1670 mm (65.7 in)
Connector type	Series T4 or MC4-EVO2 or H4 UTX
Per Pallet	33 pieces
Per Container (40'HQ)	660 pieces

OPERATING CONDITIONS

Operating temperature	-40°C à +85°C
Maximum system voltage	1000V DC (IEC/UL) or 1500V (IEC)
Fire resistance	Type 3/Type 13 (UL 1703) or Class A (IEC 61730)
Maximal serie fuse rating	20 A
Application classification	Class A
Power tolerance	0 ~ + 5 W
Bifaciality coefficient	70%

ELECTRICAL DATA (NMOT*)

	Maximum rated power (Pmax)	Voltage nominal power (Vmp)	Nominal power intensity (Imp)	Open circuit voltage (Voc)	Short circuit current (Isc)
PW72HT-CB-XF-350	262 W	36.6 V	7.14 A	43.9 V	7.67 A
PW72HT-CB-XF-355	265 W	36.7 V	7.21 A	44.0 V	7.73 A
PW72HT-CB-XF-360	269 W	36.9 V	7.27 A	44.2 V	7.80 A
PW72HT-CB-XF-365	272 W	37.1 V	7.34 A	44.4 V	7.86 A
PW72HT-CB-XF-370	276 W	37.3 V	7.40 A	44.6 V	7.93 A
PW72HT-CB-XF-375	280 W	37.5 V	7.46 A	44.8 V	7.99 A

* Below the nominal operating temperature of the module: NMOTz (energy illumination of 800 W / m2, spectrum AM 1.5, ambient temperature 20 °C, wind speed 1 m / s)

TEMPERATURE COEFFICIENT*

Typical cells temperature NOCT	°C	41 (±3 °C)
Temperature coefficient Pmax	γ	-0,37 %/°C
Temperature coefficient Voc	ß	-0,29 %/°C
Temperature coefficient Isc	α	+0,05 %/°C

* 1000 W/m² ; temperature 25°C ; spectrum AM 1,5

WARRANTY

Product warranty	10 years
Linear power output warranty*	30 years

* See general warranty terms and conditions

CARACTÉRISTIQUES ÉLECTRIQUES (STC*)

		Typical power (Pmax)	Voltage at the point of maximum power (Vmp)	Current at the point of maximum power (Imp)	Open circuit votage (Voc)	Short circuit current (Isc)	Module Efficiency
PW72HT-CB-XF-350		350	39.2 V	8.94 A	46.6 V	9.51 A	17.4 %
Bifacial Gain**	5%	368	39.2 V	9.39 A	46.6 V	9.99 A	18.3 %
	10%	385	39.2 V	9.83 A	46.6 V	10.46 A	19.2 %
	20%	420	39.2 V	10.73 A	46.6 V	11.41 A	20.9 %
	30%	455	39.2 V	11.62 A	46.6 V	12.36 A	22.7 %
PW72HT-CB-XF-355		355 W	39.4 V	9.02 A	46.8 V	9.59 A	17.7 %
Bifacial Gain**	5%	373 W	39.4 V	9.47 A	46.8 V	10.07 A	18.6 %
	10%	391 W	39.4 V	9.92 A	46.8 V	10.55 A	19.5 %
	20%	426 W	39.4 V	10.82 A	46.8 V	11.51 A	21.2 %
	30%	462 W	39.4 V	11.73 A	46.8 V	12.47 A	23.0 %
PW72HT-CB-XF-360		360 W	39.6 V	9.1 A	47 V	9.67 A	17.9 %
Bifacial Gain**	5%	378 W	39.6 V	9.56 A	47 V	10.15 A	18.8 %
	10%	396 W	39.6 V	10.01 A	47 V	10.64 A	19.7 %
	20%	432 W	39.6 V	10.92 A	47 V	11.6 A	21.5 %
	30%	468 W	39.6 V	11.83 A	47 V	12.57 A	23.3 %
PW72HT-CB-XF-365		365 W	39.8 V	9.18 A	47.2 V	9.75 A	18.2 %
Bifacial Gain**	5%	383 W	39.8 V	9.64 A	47.2 V	10.24 A	19.1 %
	10%	402 W	39.8 V	10.1 A	47.2 V	10.73 A	20.0 %
	20%	438 W	39.8 V	11.02 A	47.2 V	11.7 A	21.8 %
	30%	475 W	39.8 V	11.93 A	47.2 V	12.68 A	23.7 %
PW72HT-CB-XF-370		370 W	40.0 V	9.26 A	47.4 V	9.83 A	18.4 %
Bifacial Gain**	5%	389 W	40.0 V	9.72 A	47.4 V	10.32 A	19.4 %
	10%	407 W	40.0 V	10.19 A	47.4 V	10.81 A	20.3 %
	20%	444 W	40.0 V	11.11 A	47.4 V	11.80 A	22.1 %
	30%	481 W	40.0 V	12.04 A	47.4 V	12.78 A	24.0 %
PW72HT-CB-XF-375		375 W	40.2 V	9.34 A	47.6 V	9.91 A	18.7 %
Bifacial Gain**	5%	394 W	40.2 V	9.81 A	47.6 V	10.41 A	19.6 %
	10%	413 W	40.2 V	10.27 A	47.6 V	10.9 A	20.6 %
	20%	450 W	40.2 V	11.21 A	47.6 V	11.89 A	22.4 %
	30%	488 W	40.2 V	12.14 A	47.6 V	12.88 A	24.3 %

*STC: 1000 W / m²; 1.5 AM spectrum; cell temperature 25 ° C)
** Bifacial gain: The additional gain at the rear compared to the power of the front panel under standard test conditions. It depends on the mounting (structure, height, tilt angle, etc.) and on the albedo of the ground.

QUALITY CERTIFICATES

MANAGEMENT

afaq ISO 9001 Qualité AFNOR CERTIFICATION

Soren

PRODUCT

DVE

IEC 61215
IEC 61730

CE

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