

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.



* Both 5BB and MBB modules will be supplied

144 CELLS

MULTICRYSTALLINE MODULE

375 - 360 Wp

TYPICAL POWER



ENVIRONMENTAL STANDARDS

- Respect the best standards of the profession (ISO 14001)
- Photowatt is co-founder of PV-CYCLE France for recycling used panels
- Priority to drastically limiting the carbon footprint

24.33%

TYPICAL EFFICIENCY



DURABILITY AND PERFORMANCE

- Modules certified by international laboratories (VDE)
- Anti-reflective coated glass to maximize power output
- Cells sorted out according to reverse current and shunt resistance
- Uniform and optimized spacing between solar cells

CO₂

LOW-CARBON



RELIABILITY

- 100% electroluminescence (EL) testing process to eliminate hidden defects

0/+5 Wp

POWER TOLERANCE

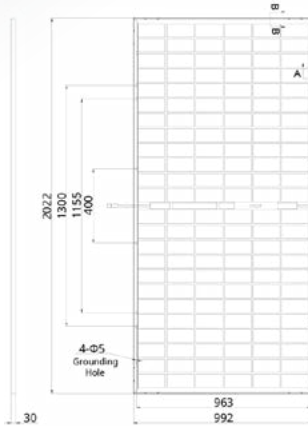
HIGHLY STRENGTHENED DESIGN

- Module complies with advanced loading tests to meet 5400 Pa loading requirements

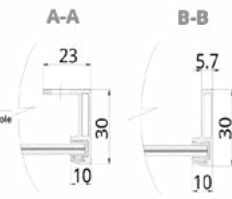
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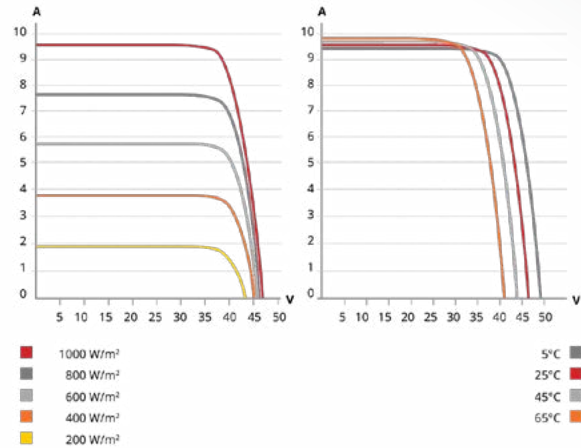
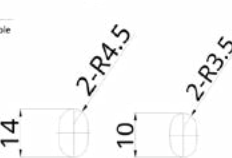
Rear View



Frame Cross Section



Mounting Hole



ELECTRICAL DATA (STC*)

	Nominal Max. Power (Pmax)	Opt. Operating Voltage (Vmp)	Opt. Operating Current (Imp)	Open Circuit Voltage (Voc)	Short circuit current (Isc)	Module Efficiency	
PW72HT-CB-XF-360	360 W	39.6 V	9.1 A	47 V	9.67 A	17.95 %	
Bifacial Gain**	5%	378 W	39.6 V	9.56 A	47 V	10.15 A	18.85 %
	10%	396 W	39.6 V	10.01 A	47 V	10.64 A	19.74 %
	20%	432 W	39.6 V	10.92 A	47 V	11.6 A	21.54 %
	30%	468 W	39.6 V	11.83 A	47 V	12.57 A	23.33 %
PW72HT-CB-XF-365	365 W	39.8 V	9.18 A	47.2 V	9.75 A	18.20 %	
Bifacial Gain**	5%	383 W	39.8 V	9.64 A	47.2 V	10.24 A	19.09 %
	10%	402 W	39.8 V	10.1 A	47.2 V	10.73 A	20.04 %
	20%	438 W	39.8 V	11.02 A	47.2 V	11.7 A	21.84 %
	30%	475 W	39.8 V	11.93 A	47.2 V	12.68 A	23.68 %
PW72HT-CB-XF-370	370 W	39.8 V	9.35 A	47.4 V	9.85 A	18.45 %	
Bifacial Gain**	5%	389 W	39.8 V	9.82 A	47.4 V	10.34 A	19.39 %
	10%	407 W	39.8 V	10.29 A	47.4 V	10.84 A	20.29 %
	20%	444 W	39.8 V	11.22 A	47.4 V	11.82 A	22.14 %
	30%	481 W	39.8 V	12.16 A	47.4 V	12.81 A	23.98 %
PW72HT-CB-XF-375	375 W	39.8 V	9.43 A	47.6 V	9.93 A	18.70 %	
Bifacial Gain**	5%	394 W	39.8 V	9.9 A	47.6 V	10.43 A	19.64 %
	10%	413 W	39.8 V	10.37 A	47.6 V	10.92 A	20.59 %
	20%	450 W	39.8 V	11.32 A	47.6 V	11.92 A	22.43 %
	30%	488 W	39.8 V	12.26 A	47.6 V	12.91 A	24.33 %

ELECTRICAL DATA (NMOT*)

	Nominal Max. Power (Pmax)	Opt. Operating Voltage (Vmp)	Opt. Operating Current (Imp)	Open Circuit Voltage (Voc)	Short circuit current (Isc)
PW72HT-CB-XF-360	269	36.9	7.27	44.2	7.80
PW72HT-CB-XF-365	272	37.1	7.34	44.4	7.86
PW72HT-CB-XF-370	277	37.0	7.48	44.6	7.94
PW72HT-CB-XF-375	280	37.2	7.54	44.8	8.01

*Under Nominal Module Operating Temperature : NMOTz (Irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s)

MECHANICAL CHARACTERISTICS

Cell type	Multi-crystalline
Module size	2022 x 992 x 30 mm (79.6 x 39.1 x 1.18 in)
Cell arrangement	144 [2 x (12 x 6)]
Module weight	25.7 kg (56.7 lbs)
Front/Back glass	2.0 mm heat strengthened glass
Frame material	Anodized aluminium alloy
J-BOX	IP68, 3 diodes
Cable	4.0 mm ² (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	T4 series or MC4-EVO2
Per pallet	35 pcs
Per container (40'HQ)	770 pcs

OPERATING CONDITIONS

Operating temperature	-40°C ~ +85°C
Mechanical load	5400 PA
Reverse current I _r	20A
Maximum system voltage	1500V (IEC) 1000V DC (IEC/UL)
Maximal serie fuse rating	20 A
Application classification	Class A
Power tolerance	0~ + 5W
Power Bifaciality*	70 %

* Power Bifaciality = Pmaxrear / Pmaxfront, both Pmaxrear and Pmaxfront are tested under STC, Bifaciality Tolerance: ± 5 %

WARRANTY

Product warranty	10 years
Linear power output warranty*	30 years

*See general warranty terms and conditions

TEMPERATURE COEFFICIENT *

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

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

QUALITY CERTIFICATES



*The specifications and key features contained in this datasheet may deviate slightly from our actual products due to the on-going innovation and product enhancement. Photowatt reserves the right to make necessary adjustment to the information described herein at any time without further notice.

