Photowatt®

PW72HT-C

THE HIGH QUALITY PHOTOVOLTAIC MODULE

The Crystal Advanced® PW72HT-C High Efficiency module benefits from the latest innovations in Crystal Advanced® PERC technologies for optimum surface performance. Photowatt has been a pioneer in the solar industry for more than 40 years.

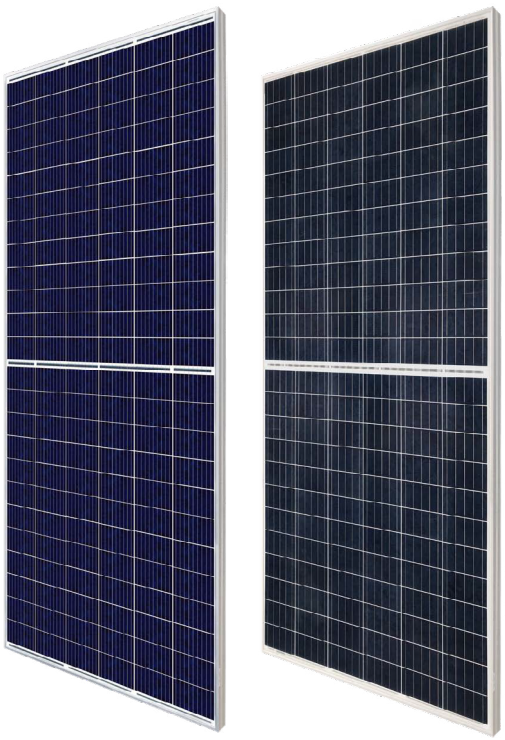
380-350 Wc
Typical power

19.15 %
Typical efficiency

144 half cells
Multicrystalline module

CO2
Low-carbon footprint

0/+5 Wc
Power tolerance



MBB 5BB

* Black frame product can be supplied on request

Environmental standards

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

Durability and performance

- Modules certified by international laboratories (VDE)
- Anti-reflective coated glass to maximize power output
- Cells sorting according to reverse current and shunt resistance
- Better power thanks to uniform and optimized spacing between cells

Highly resistant and light framing

- Aluminium frame for resistance to extreme weather conditions (5400Pa)
- Frame resistant to gel damage
- Module weight for easy handling

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MECHANICAL CHARACTERISTICS

Cell type	Multicristalline
Module size	2000 x 992 x 35 mm
Cell number	144
Module weight	22.5 kg
Front cover	3.2 mm tempered glass
J-BOX	IP 68, 3 diodes
Solar cables	4.0 mm² & 12 AWG
Connector type	T4 series or MC4-EVO2 or H4 UTX
Per pallet	30 pieces
Per container	660 pieces

TECHNICAL CHARACTERISTICS (STC*)

Typical power	**W**	380	375	370	365	360	355	350
Power tolerance	**W**	0/+5	0/+5	0/+5	0/+5	0/+5	0/+5	0/+5
Voltage at typical power	**V**	40.0	39.8	40.0	39.8	39.6	39.4	39.2
Current at typical power	**A**	9.50	9.43	9.26	9.18	9.10	9.02	8.94
Open circuit voltage	**V**	47.8	47.6	47.4	47.2	47.0	46.8	46.6
Short circuit current	**A**	10.01	9.93	9.83	9.75	9.67	9.59	9.51
Module conversion efficiency	**%**	19.15	18.90	18.65	18.40	18.15	17.89	17.64

* Rated Characteristics under Standard Test Conditions
(STC : 1000 W/m² ; spectrum AM 1,5 ; cell temperature 25°C)

OPERATING CONDITIONS

Operating temperature	-40°C to +85°C
High resistance to snow and wind load	5400 Pa (Snow) 2400 Pa (Wind)
Maximum system voltage	1000V or 1500V (IEC)
Maximal serie fuse rating	30A

TECHNICAL CHARACTERISTICS (NMOT*)

Typical power	**W**	380	375	370	365	360	355	350
Maximum power	**W**	283	279	275	271	268	264	259
Voltage at maximum power	**V**	37.2	37.2	37.2	37.0	36.8	36.6	36.2
Current operating income	**A**	7.60	7.54	7.40	7.34	7.27	7.21	7.15
Open circuit volatge	**V**	44.8	44.6	44.4	44.3	44.1	44.1	43.4
Short circuit current	**A**	8.08	8.01	7.93	7.87	7.80	7.80	7.68

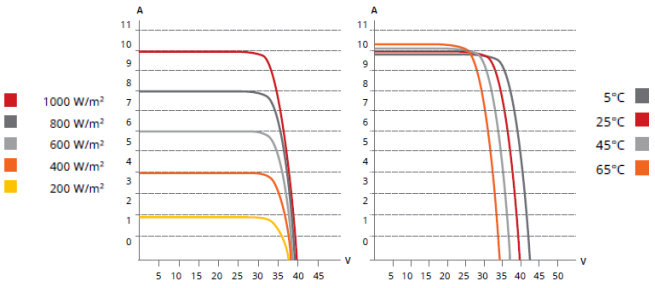
* Under Nominal Module Operating Temperature : NMOT irradiance of 800 W/m² ; spectrum AM 1.5, ambient temperature 20°C ; wind speed 1 m/s

TEMPERATURE COEFFICIENT*

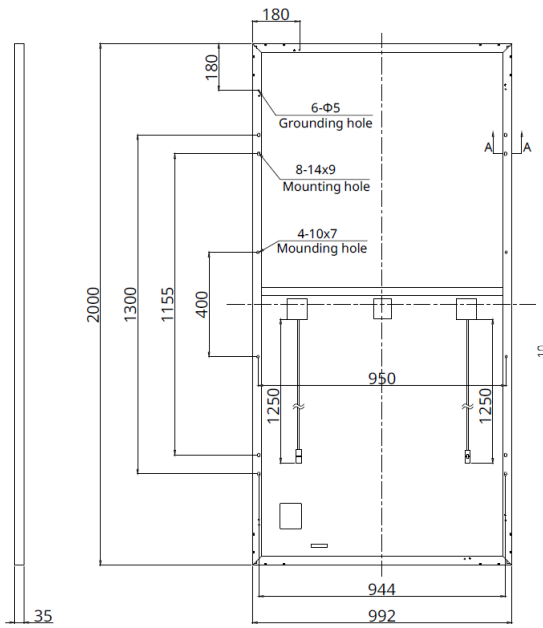
Typical cells temperature NOCT	°C	41 (±3 °C)
Temperature coefficient Pmax	γ	-0,37%/°C
Temperature coefficient Voc	ß	-0,29%/°C
Temperature coefficient Isc	α	+0,05%/°C

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

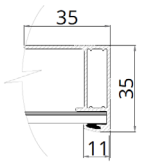
I/V CURVES AT LOW IRRADIANCE AND DIFFERENT TEMPERATURES



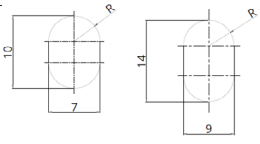
Rear View



Frame Cross Section A-A



Mounting Hole



WARRANTY

Product warranty	10 years
Linear power output warranty *	25 years

* See general warranty terms and conditions

QUALITY CERTIFICATES

MANAGEMENT

afaq ISO 9001 Qualité AFNOR CERTIFICATION

Soren

PRODUCT

DVE IEC 61215 IEC 61730

CE

EDF ENR PWT - 33, Rue Saint Honoré - CS 14012 - 38 307 Bourgoin Jallieu Cédex - France - Tél : +33 (0)4 74 93 80 20 - Fax : +33 (0)4 74 93 80 40 - Web : www.photowatt.com