Photowatt®

PW66MAX-C

THE HIGH POWER MONOLIKE PERC MODULE

With Photowatt industry leading Crystal Advanced-PERC cell technology and the innovative LIC (Low Internal Current) module technology, we are now able to offer our global customers high power monolike modules up to 670 Wp. Photowatt® has been a pioneer in the solar energy industry for 40 years.

600-670 Wc
Typical power

21.6 %
Typical efficiency

132 demi-cellules
Multicrystalline module

CO2
Low-carbon footprint

0/+5 Wc
Power tolerance

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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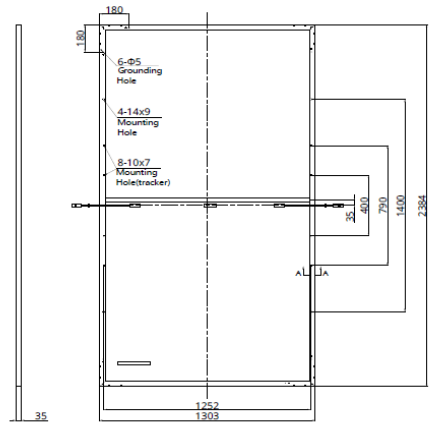
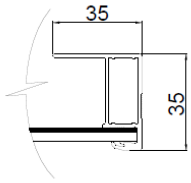
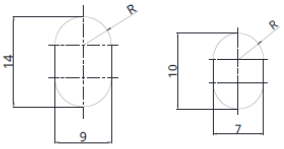
Rear View



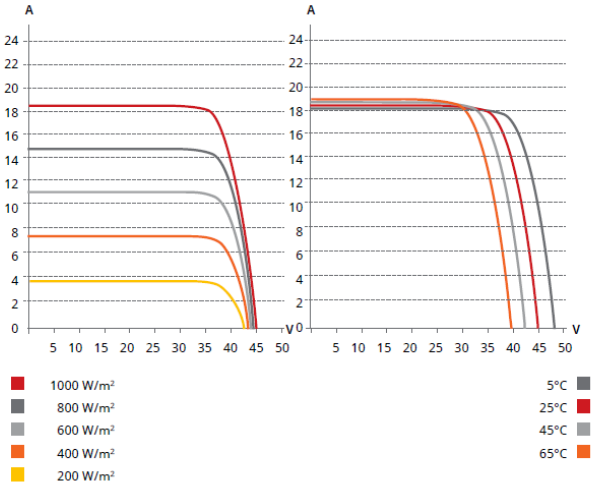
Frame Cross Section A-A



Mounting Hole



I/V CURVES AT LOW IRRADIANCES AND DIFFERENT TEMPERATURES



MECHANICAL CHARACTERISTICS

Cell type	Multicrystalline
Module size	2384 x 1303 x 35 mm
Cells number	132 [2 x (6 x 11)]
Module weight	34.4 kg
Front cover	3.2 mm heat strengthened glass
Frame material	Anodized aluminium alloy
J-BOX	IP68,3 diodes
Cable Length	Customized length *
Connector type	T4 Series or MC4-EVO2 or H4 UTX
Per palette	31 pieces
Per Container (40'HQ)	527 pieces

* 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	1000V ou 1500V (IEC)
Module Fire Performance	Classe C (IEC 61730)
Max. Series Fuse Rating	30 A
Application Classification	Class A

TEMPERATURE CHARACTERISTICS *

Nominal Module Operating Temperature	°C	41 ±3 °C
Temperature Coefficient (Pmax)	γ	-0,34 %/°C
Temperature Coefficient (Voc)	ß	-0,26 %/°C
Temperature Coefficient (Isc)	α	+0,05 %/°C

* With 1000 W/m²; temperature of 25°C; AM spectrum 1.5

ELECTRICAL DATA (STC*)

Nominal Max. Power (Pmax)	**W**	670	660	650	640	630	620	610	600
Power tolerance	**W**	0/+5	0/+5	0/+5	0/+5	0/+5	0/+5	0/+5	0/+5
Opt. Operating Voltage (Vmp)	**V**	38.7	38.3	37.9	37.5	37.1	36.7	36.3	35.9
Opt. Operating Current (Imp)	**A**	17.32	17.24	17.16	17.07	16.99	16.91	16.83	16.75
Open Circuit Voltage (Voc)	**V**	45.8	45.4	45.0	44.6	44.2	43.8	43.4	43.0
Short Circuit Current (Isc)	**A**	18.55	18.47	18.39	18.31	18.23	18.15	18.07	17.99
Module Efficiency	**%**	21.6	21.2	20.9	20.6	20.2	19.8	19.4	19.0

* Under Standard Test Conditions (STC) of irradiance of 1000 W/m2, spectrum AM 1.5 and cell temperature of 25°C.

ELECTRICAL DATA (NMOT*)

Nominale power	**W**	670	660	650	640	630	620	610	600
Nominal Max. Power (Pmax)	**W**	502	495	487	480	473	466	458	450
Opt. Operating Voltage (Vmp)	**V**	36.3	35.9	35.5	35.2	34.8	34.4	34.0	33.6
Opt. Operating Current (Imp)	**A**	13.85	13.79	13.74	13.64	13.58	13.52	13.46	13.40
Open Circuit Voltage (Voc)	**V**	43.3	42.9	42.5	42.2	41.8	41.4	41.0	40.6
Short Circuit Current (Isc)	**A**	14.96	14.89	14.83	14.77	14.70	14.63	14.56	14.49

* Rated data under conditions: NMOT (800 W/m²; ambient temperature 20°C; wind speed 1 m/s)

WARRANTY

Product warranty	10 years
Linear power guarantee *	25 years

* Refer to the general conditions of guarantee

QUALITY CERTIFICATES

MANAGEMENT **PRODUCT**

IEC 61215 • IEC 61730
IEC 61701 • IEC 62716

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