

Photowatt®

PW60MAX-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 585 Wp. Photowatt has been a pioneer in the solar energy industry for 40 years.

545 - 585 Wp
Typical power

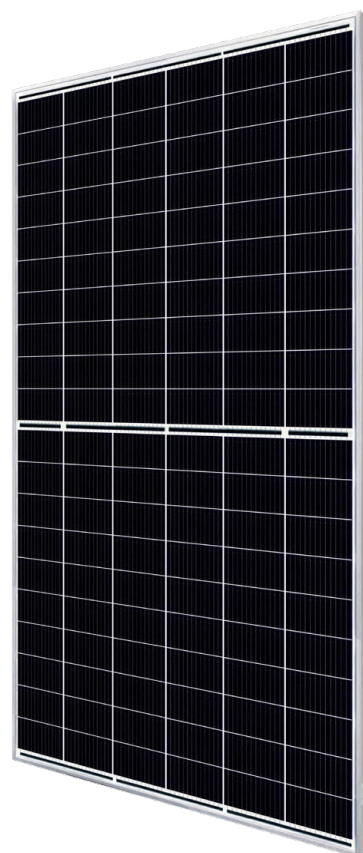
20.7 %
Typical efficiency

120 half-cells
Multicrystalline module

CO₂
Low-carbon footprint

0/+5 Wc
Power tolerance

5400 Pa
Load resistance



French know-how

- Since 1979, our know-how has been evolving to meet market requirements, always manufacturing high performance, high quality and environmentally responsible products.



Environmental standards

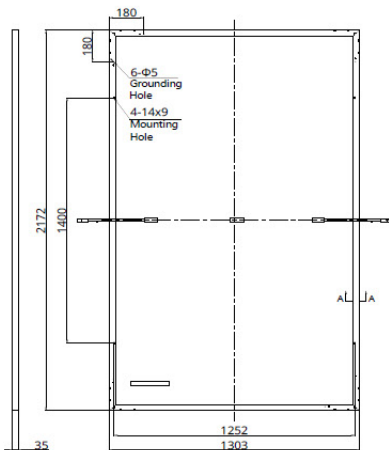
- Priority over environmental requirements by limiting the carbon footprint
- Recycling of used panels (Photowatt is co-founder of Soren)



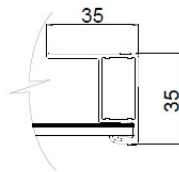
Durability and performance

- 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

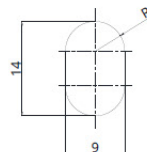
Rear View



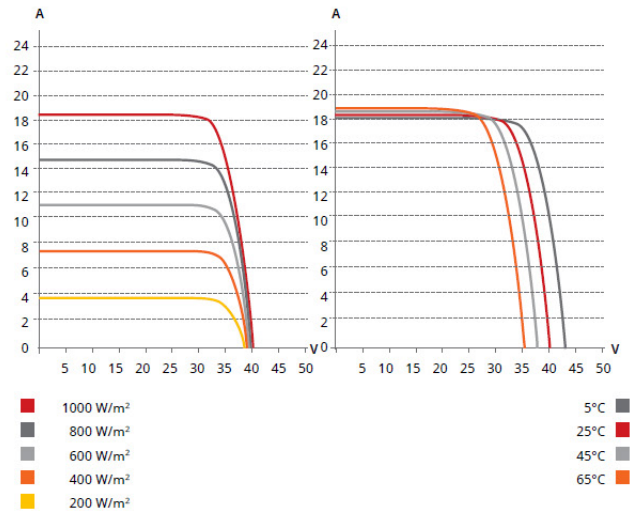
Frame Cross Section A-A



Mounting Hole



I/V CURVES AT LOW IRRADIANCES AND DIFFERENT TEMPERATURES



MECHANICAL CHARACTERISTICS

Cell type	Multicrystalline
Module size	2172 x 1303 x 35 mm
Cells number	120 [2 x (6 x 10)]
Module weight	31.0 kg
Front cover	3.2 mm heat strengthened glass
Frame material	Anodized aluminium alloy
J-BOX	IP68,3 diodes
Cable Length	Customized length ¹
Connector type	T4 Series or MC4-EVO2 or H4 UTX
Per palette	31 pieces
Per Container (40'HQ)	558 pieces

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	1000V ou 1500V (IEC)
Module Fire Performance	Classe C (IEC 61730)
Max. Series Fuse Rating	30 A
Application Classification	Class A
Power Tolerance	0/+5 W

WARRANTY

Product warranty	10 years
Linear power warranty ²	25 years

² Refer to the general conditions of guarantee

ELECTRICAL DATA (STC³)

Nominal Max. Power (Pmax)	W	585	575	565	555	545
Opt. Operating Voltage (Vmp)	V	34.3	33.9	33.5	33.1	32.7
Opt. Operating Current (Imp)	A	17.06	16.97	16.88	16.79	16.69
Open Circuit Voltage (Voc)	V	40.7	40.3	39.9	39.5	39.1
Short Circuit Current (Isc)	A	18.32	18.22	18.12	18.02	17.92
Module Efficiency	%	20.7	20.3	19.9	19.5	19.1

³ Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.

ELECTRICAL DATA (NMOT⁴)

Nominal power	W	585	575	565	555	545
Nominal Max. Power (Pmax)	W	439	431	423	415	407
Opt. Operating Voltage (Vmp)	V	32.2	31.9	31.5	31.1	30.7
Opt. Operating Current (Imp)	A	13.64	13.56	13.49	13.42	13.34
Open Circuit Voltage (Voc)	V	38.5	38.3	38.1	37.9	37.7
Short Circuit Current (Isc)	A	14.77	14.69	14.61	14.53	14.45

⁴ Rated data under conditions: NMOT (800 W/m²; ambient temperature 20°C; wind speed 1 m/s)

TEMPERATURE COEFFICIENT⁵

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

⁵ With 1000 W/m²; temperature of 25°C; AM spectrum 1.5

