

Photowatt® PW2350



The high quality module

Over the last decade the premium multicrystalline PW2350, has been installed in various regions worldwide. Assembled from the best components available on the market, it has high mechanical and electrical performances.

60 CELLS

MULTICRYSTALLINE MODULE



255-240 Wp

TYPICAL POWER



16,0%

TYPICAL EFFICIENCY



CO2

LOW-CARBON



0/+5 Wp

POWER TOLERANCE



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

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

RELIABILITY

- 100% electroluminescence (EL) testing process to eliminate hidden defects
- Internal reliability tests are pushed up to 2 times compared to IEC standards
- Calibration controls are performed at least 4 times per year by independent laboratories (e.g. Fraunhofer Institute)

HIGHLY RESISTANT AND LIGHT FRAMING

- Automated assembly of aluminum frame by screwing and gluing provides to high resistance to extreme weather conditions (5400Pa)
- Framing resistant to frost damage
- Module weight for easy handling

MECHANICAL CHARACTERISTICS

Cell type	Multicrystalline
Module size	1638 x 982 x 40 mm
Cell size	156 x 156 mm (± 1%)
Cells number	60 (6x10)
Module weight	20 kg
Front cover	3.2 mm anti-reflected tempered glass
Back cover	Tedlar® white
Frame material	Anodized aluminum alloy
J-BOX	IP 65
Solar cables	UV resistant, 4.0 mm ² , 1100mm
Connector type	MC4 or MC4 compatible

OPERATING CONDITIONS

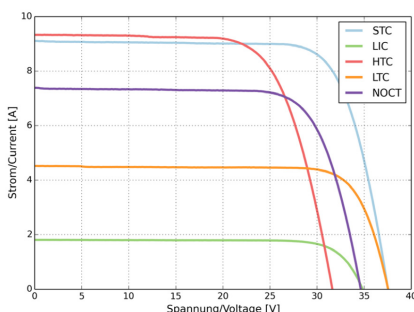
Operating temperature	-40°C à +85°C
High resistance to snow and wind load	5400 Pa (Snow) 2400 Pa (Wind)
Reverse current I _R	20A
Maximum system voltage	1000V DC (IEC)
Maximal serie fuse rating	15A
PID	Free

TEMPERATURE COEFFICIENT *

Typical cells temperature NOCT	°C	47,3 (±2)
Temperature coefficient P _{max}	γ	-0,42 %/°C
Temperature coefficient V _{oc}	β	-0,34 %/°C
Temperature coefficient I _{sc}	α	+0,06%/°C

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

TEMPERATURE CURVES



WARRANTY

Product warranty 10 years

Linear power output warranty* 25 years

*See general warranty terms and conditions

TECHNICAL CHARACTERISTICS (STC*)

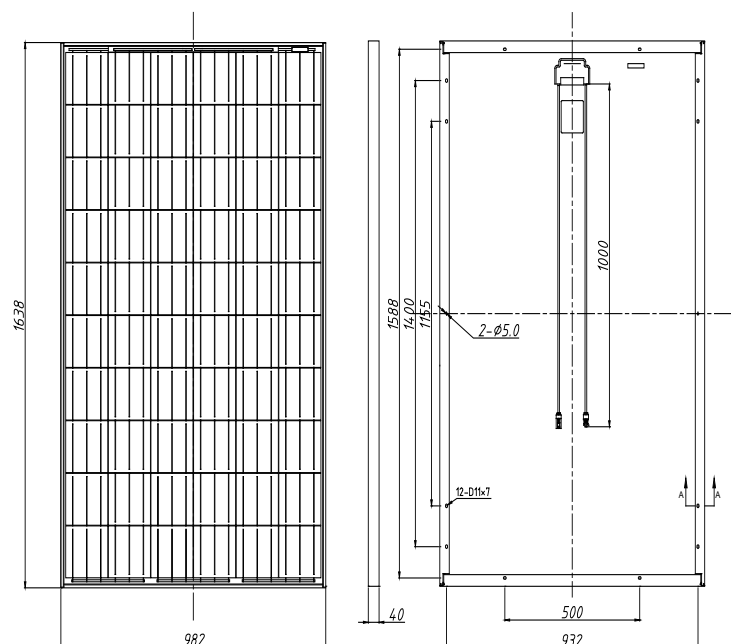
Typical power	W	255	250	245	240
Power tolerance	W	0/+5	0/+5	0/+5	0/+5
Voltage at typical power	V	30.5	30.1	30.0	29.9
Current at typical power	A	8.40	8.30	8.17	8.03
Open circuit voltage	V	37.7	37.2	37.1	37.0
Short circuit current	A	8.90	8.87	8.74	8.59
Module conversion efficiency	%	16.	15.7	15.4	15.1

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

TECHNICAL CHARACTERISTICS (NOCT*)

Typical power	W	255	250	245	240
Maximum power	W	185	181	178	174
Voltage at maximum power	V	27.5	27.5	27.4	27.3
Current operating income	A	6.71	6.60	6.49	6.38
Open circuit voltage	V	34.4	34.2	34.1	34.0
Short circuit current	A	7.29	7.19	7.08	6.96

*Nominal Operating Cell Temperature : NOCT
(800 W/m² ; temperature 20°C ; wind speed 1 m/s)



QUALITY CERTIFICATES

