

Photowatt® PW2500F



The high quality photovoltaic module

The PW2500F module benefits from the highest conversion efficiency of the Photowatt® range. The major steps of manufacturing are exclusively processed in France, with the most successful components on the market.

60 CELLS

MONOCRYSTALLINE MODULE



290-270 Wp

TYPICAL POWER



ENVIRONMENTAL STANDARDS

- Meet the most demanding standards of the industry (ISO 14001)
- Co-founder of PV-CYCLE France for recycling used panels
- Priority to drastically limiting the carbon footprint

17,5%

TYPICAL EFFICIENCY



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

CO₂

LOW-CARBON



RELIABILITY

- 100% electroluminescence (EL) testing process
- Reliability tests extended up to 2 times vs. IEC standards
- Calibration controls performed by independent laboratories

0/+5 Wp

POWER TOLERANCE



HIGHLY RESISTANT AND LIGHT FRAMING

- High resistance to snow (4500 Pa) and wind load (2400 Pa)
- Module weight for easy handling

MECHANICAL CHARACTERISTICS

Cell type	Monocrystalline
Module size	1685 x 993 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	With Tedlar*
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

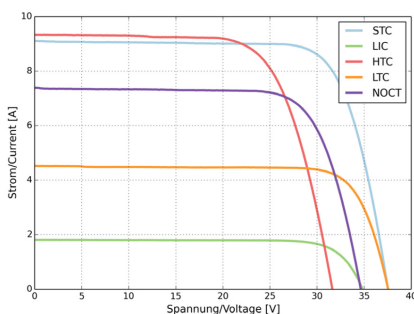
Operating temperature	-40°C à +85°C
High resistance to snow and wind load	5400 Pa (Snow) 2400 Pa (Wind)
Reverse current I _R	20A
Maximum system voltage	1000V DC (IEC)
Maximal serie fuse rating	15A
PID	Free

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



TECHNICAL CHARACTERISTICS (STC*)

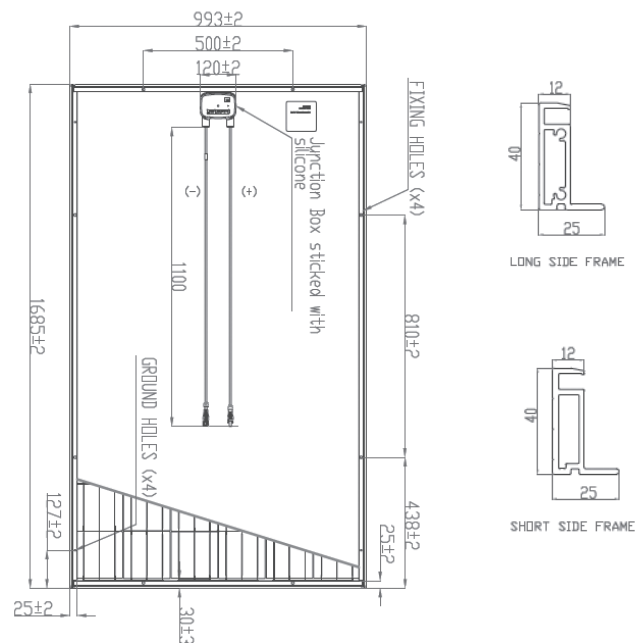
Typical power	W	290	285	280	275	270
Power tolerance	W	0/+5	0/+5	0/+5	0/+5	0/+5
Voltage at typical power	V	31.6	31.5	31.4	31.2	31.0
Current at typical power	A	9.20	9.10	9.00	8.90	8.80
Open circuit voltage	V	38.6	38.5	38.4	38.3	38.2
Short circuit current	A	9.52	9.48	9.44	9.40	9.34
Module conversion efficiency	%	17.5	17.2	16.9	16.6	16.3

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

TECHNICAL CHARACTERISTICS (NOCT*)

Typical power	W	290	285	280	275	270
Maximum power	W	197	196	194	193	191
Voltage at maximum power	V	28.6	28.5	28.4	28.3	28.2
Current operating income	A	7.00	6.90	6.90	6.80	6.80
Open circuit voltage	V	35.00	35.00	34.90	34.90	34.80
Short circuit current	A	7.50	7.50	7.50	7.40	7.40

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



WARRANTY

Product warranty	10 years
Linear power output warranty*	25 years

*See general warranty terms and conditions

QUALITY CERTIFICATES

