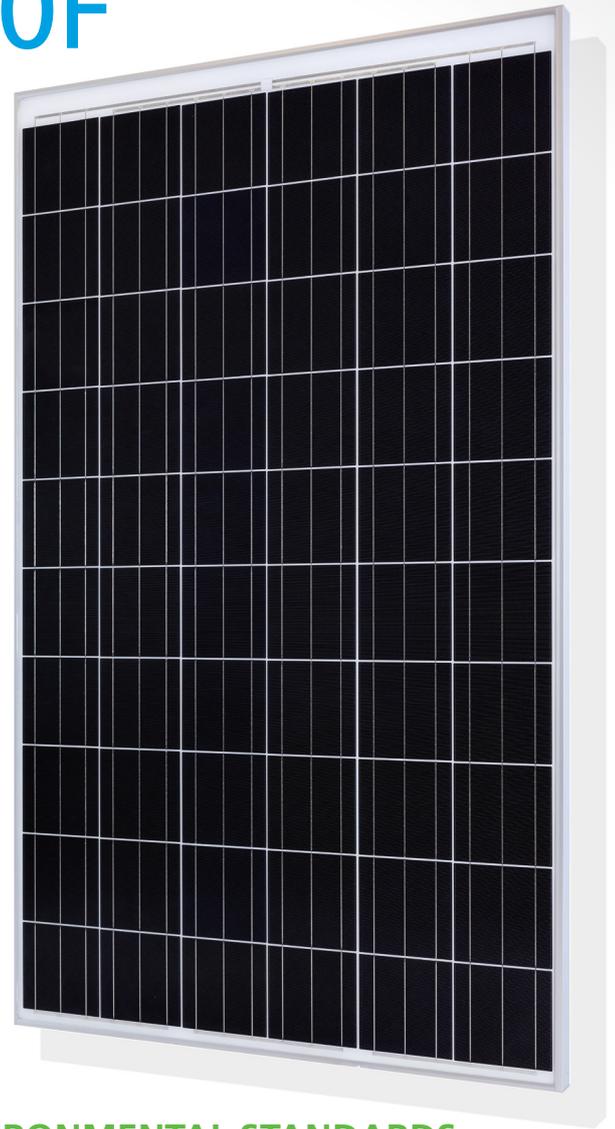


# Photowatt® PW2500F



## 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



**275-260 Wp**  
TYPICAL POWER



**16,6%**  
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 a high resistance to extreme weather conditions (5400Pa)
- Framing resistant to frost damage
- 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 <sup>2</sup> , 1100mm
Connector type	MC4 or MC4 compatible

## OPERATING CONDITIONS

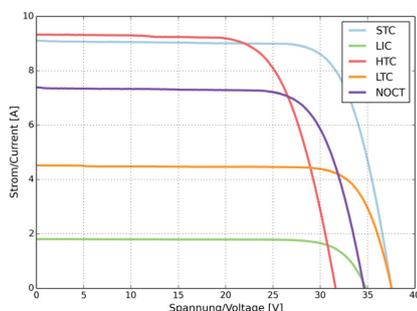
Operating temperature	-40°C à +85°C
High resistance to snow and wind load	5400 Pa (Snow) 2400 Pa (Wind)
Reverse current I <sub>R</sub>	20A
Maximum system voltage	1000V DC (IEC)
Maximal serie fuse rating	15A
PID	Free

## TEMPERATURE COEFFICIENT \*

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

\*1000 W/m<sup>2</sup> ; 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\*)

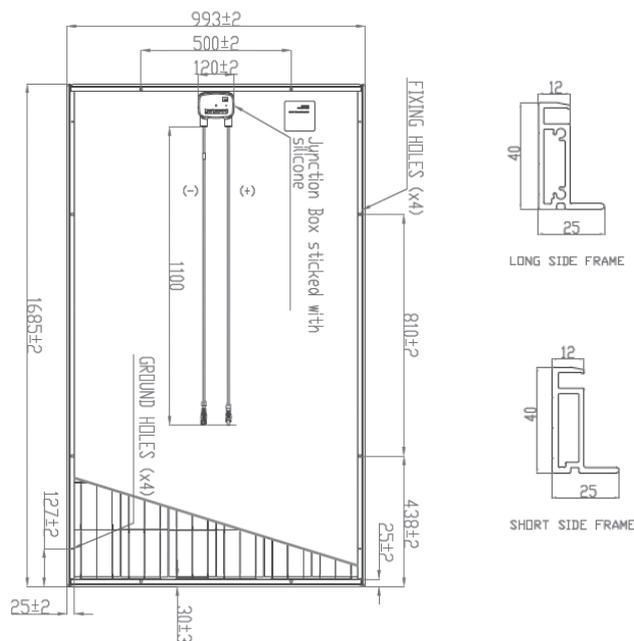
Typical power	W	275	270	265	260
Power tolerance	W	0/+5	0/+5	0/+5	0/+5
Voltage at typical power	V	31.2	31.0	30.8	30.7
Current at typical power	A	8.90	8.70	8.60	8.50
Open circuit voltage	V	38.2	38.1	38.0	37.8
Short circuit current	A	9.40	9.20	9.10	9.00
Module conversion efficiency	%	16.6	16.3	16.0	15.7

\*Under Standard Test Conditions : STC  
(1000 W/m<sup>2</sup> ; spectrum AM 1,5 ; cell temperature 25°C)

## TECHNICAL CHARACTERISTICS (NOCT\*)

Typical power	W	275	270	265	260
Maximum power	W	197	194	192	189
Voltage at maximum power	V	28.6	28.4	28.5	27.7
Current operating income	A	7.0	6.9	6.9	6.8
Open circuit voltage	V	35	34.9	34.6	34.5
Short circuit current	A	7.69	7.60	7.48	7.39

\*Nominal Operating Cell Temperature : NOCT  
(800 W/m<sup>2</sup> ; temperature 20°C ; wind speed 1 m/s)



## QUALITY CERTIFICATES

