

Tolerance 0 / +3%

External insurance
European production



Photovoltaic

Perfect 25 / PEPV

Polycrystalline 214 / 220 / 225 / 230 / 245 W

We were the first photovoltaic manufacturer to give a 10 years product warranty, and now we are the first to provide an external insurance which ensures the modules up to 25 years. Eurener is yet again ahead with a new product, PERFECT 25, the world's most reliable module.

In addition, the PERFECT 25 has positive tolerance in its nominal power, which assures an improvement in the relation €/W.

All Eurener modules come with positive tolerance and external insurance. They are manufactured by the best German-Swiss technology, automated machinery of the latest generation which provides maximum reliability and high performance.

Guarantees

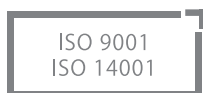
- External insurance
- 10 years product's warranty
- 90% nominal power: up to 12 years
- 80% nominal power: up to 25 years

Nominal power tolerance

- Positive tolerance in all the models: 0 / +3%

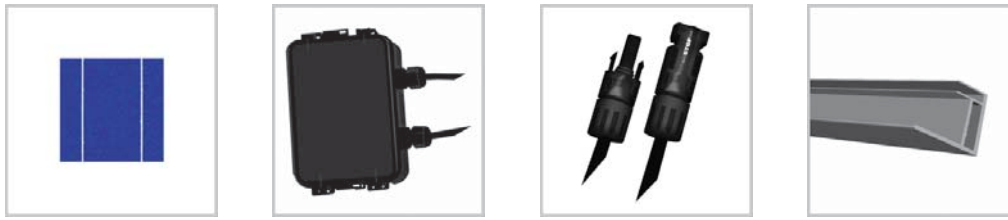
Certificates

- IEC 61215 - TÜV Rheinland
- IEC 61730 - TÜV Rheinland
- Frontal load 5.4 kPa, for snow and ice
- Wind resistance 2.4 kPa



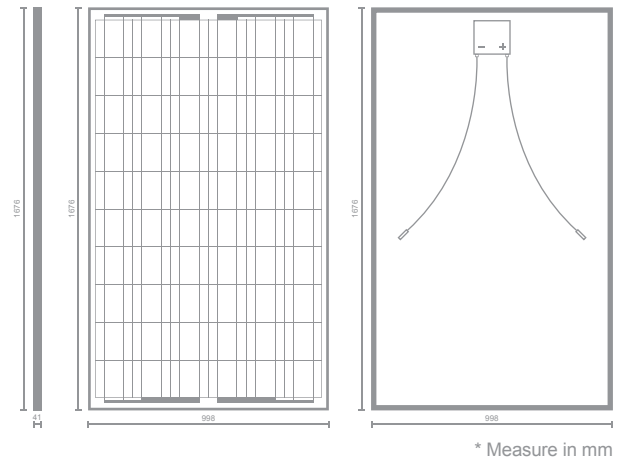
Member of:





Technical features

Frame
Silver anodized aluminium
Robust and resistant to corrosion
Water drainage orifices
Built-in plug
Connection box
Sealed, robust and wide for heat dissipation
IP65 according to IEC 60529
Diodes by-pass built-in (3) for protection of the partial shading
Connectors MC3 and MC4, easy and rapid connection
Cables 1.0 meter length and 4mm ² section
Inflammable capacity in accordance with UL 94-5V
Frontal
4,2 mm tempered glass
Textured, extra-clear, with low iron content
Solar cells
60 cells, polycrystalline silicon 6,2" (156x156 mm)
Encased cells
EVA (ethylen-vinyl-acetate)



Dimensions and weight
1676 x 998 x 41 mm / (L x W x D) +/-2 mm
22 Kg
Packaging
Pallet of 25 modules
Approved by AIDIMA (independent Institute)
Overcome horizontal impact, rotational fall and dynamic compression testing

Electric data

Perfect 25	PEPV 214	PEPV 220	PEPV 225	PEPV 230	PEPV 245
Nominal power, P _{mp}	214 W	220 W	225 W	230 W	245 W
Positive tolerance, P _{mp}	0 / +3%	0 / +3%	0 / +3%	0 / +3%	±3%
Area of the module	1,67	1,67	1,67	1,67	1,67
Module efficiency	12,81%	13,18%	13,47%	13,74%	14,65%
I _{sc}	8,02 A	8,06 A	8,15 A	8,25 A	8,63 A
U _{oc}	35,94 V	36,42 V	36,84 V	37,08 V	37,79 V
I _{mp}	7,29 A	7,40 A	7,52 A	7,66 A	8,13 A
U _{mp}	29,40 V	29,79 V	29,96 V	30,01 V	30,14 V
Maximum voltage	1000 V	1000 V	1000 V	1000 V	1000 V
α I _{sc}	0,075% / °C	0,075% / °C	0,075% / °C	0,075% / °C	0,075% / °C
β U _{oc}	- 0,312% / °C	- 0,312% / °C	- 0,312% / °C	- 0,312% / °C	- 0,312% / °C
γ P _{max}	- 0,405% / °C	- 0,405% / °C	- 0,405% / °C	- 0,405% / °C	- 0,405% / °C
Temperature range	- 40°C / +85°C				
NOCT	44°C ± 2°C				

These values are valid for: 1000W/m², AM 1.5 and cell's temperature of 25°C. All the values are subject to manufacturing tolerance, and may be amended without notice by Eurener.
NOTE: Read the instruction manual of this product and follow the indications.