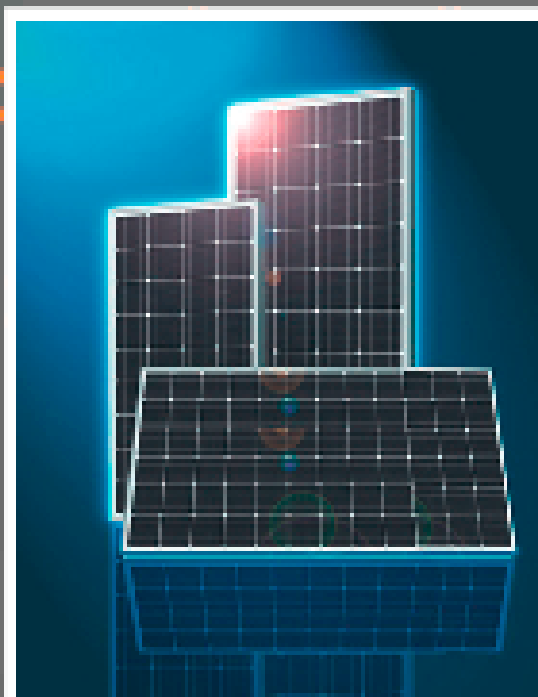


Série VOLTUS

Le capteur photovoltaïque
haute performance



Monocrystalline Solar Module

High-Quality Solar Modules

Within 72 cells and 3 bypass diodes in powerclasses of 160 to 180 Wp for grid connected systems.

Solid

Aluminium hollow-chamber frame on each side combined with low-iron, tempered solar-glass ensures a very high mechanical capacitance.

Performance Guarantee

ERA SOLAR give a power guarantee of 90% of nominal power output for 10 years and 80% for 25 years.

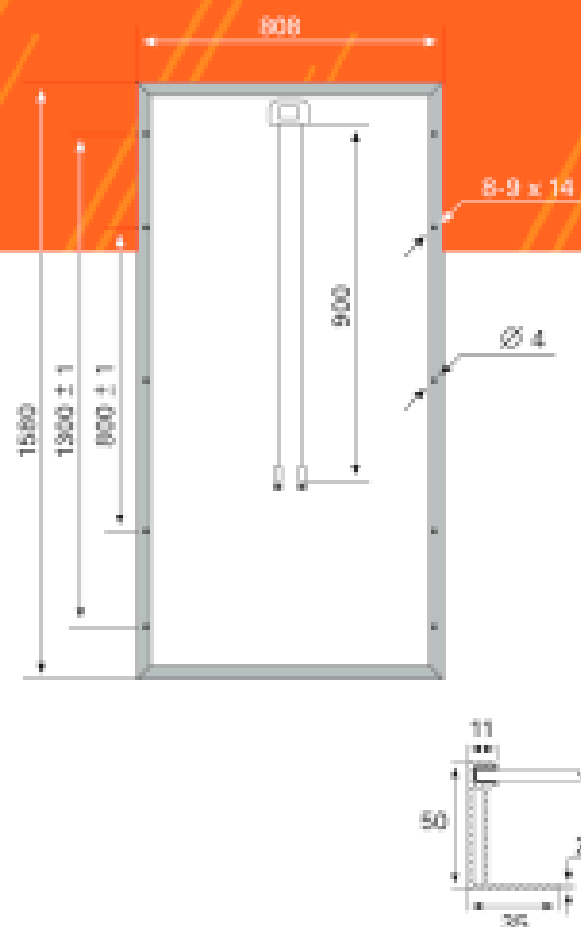
Certificates

IEC 61215 edition 2 (TÜV Rheinland)
Safety Class II
LEAD testing and certification (UK)



Specifications

Dimensions	1580 x 808 mm x 50 mm
Weight	15.5 kg
Frame	Aluminium hollow-chamber frame on each side
Glass	Pilkington, Australia
Cells	72 pos monocrystalline Si-cells (125 x 125 mm)
Cell Embedding	EVA
Back-Foil	Tedlar TPT
Junction Box	Cixi Renhe PV-RH0502 FPE 001 Aluminium Junction Box
Cable	4 mm ² solar-cable 2 x 900 mm
Temperature-Range	-40°C ... +85°C
Certificates	IEC 61215 edition 2, Safety-Class II
Power-Guarantee	10 years 90%, 25 years 80%



Electrical Characteristics

Typ	ESPSA 175	ESPSA 180
Power-Class +/- 5 %	175 W	180 W
Max. Power Voltage (U_{mpp}) ⁺ at STC ⁺⁺	36.5 V	36.7 V
Max. Power Current (I_{mpp}) at STC	4.80 A	4.90 A
Open Circuit Voltage (U_{oc}) at STC	43.7 V	44.3 V
Short Circuit Current (I_{sc}) at STC	5.10 A	5.20 A
Efficiency	13.7 %	14.1 %

Max. System Voltage	1000 V
Temperature-Coefficient I_{sc}	1.9 mA/K
Temperature-Coefficient U_{oc}	-165 mV/K
Temperature-Coefficient P_{mpp}	-0.43 %/K
NOCT ⁺⁺⁺	48°C +/- 2°C

- + MPP: Maximum Power Point
- ++ STC (Standard Test Conditions): 1000 W/m², 25°C, AM 1.5
- +++ Normal Operating Cell Temperature

