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Solar Panel Guide

Specification Data Sheet

Learn more at energypal.com/best-solar-panels-for-homes



AZIMUT MONOCRYSTALLINE



Product
Made
in Italy



Warranty on
production
defects:
12 years



Classification
Only positive MPP
+3 / -0% = + kWh
produced each
year



Periodic Factory
inspection by TÜV
Intercert



CLASS 1
Reaction to
fire according
to the UNI 9177
standard



Ammonia test
according to
IEC 62716
Salt mist test
according to IEC
61701



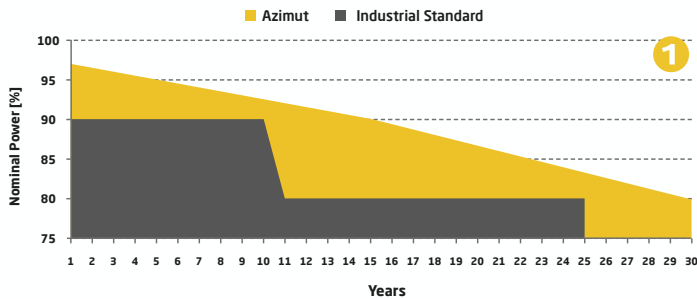
Member of the
end-of-life panel
recycling zero
hassle to customers



Panel
certifications
IEC 61215
EN 61730



100%
product
traceability

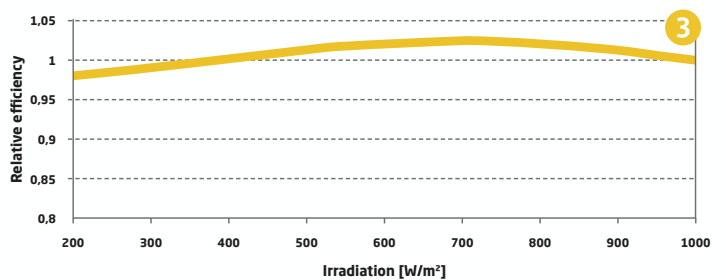
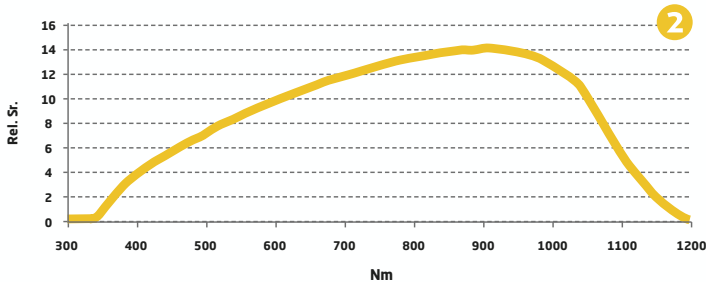


1 Warranty on rated output

30-year warranty period on output:
97% after 1 year, 90% after 15 years, 80% after 30 years

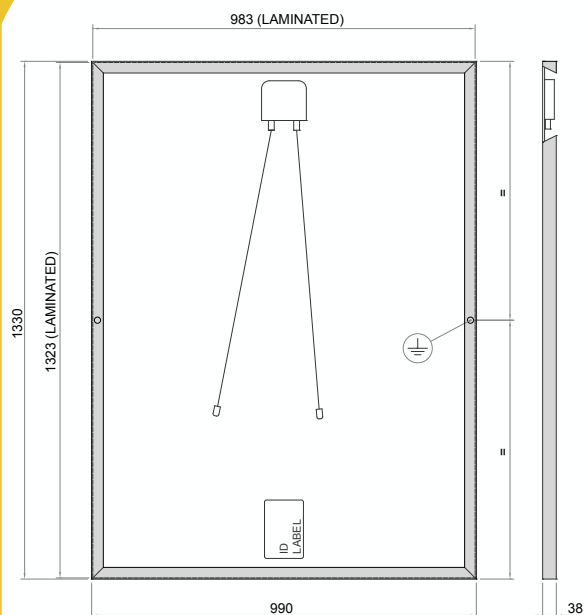
2 Typical spectral response

3 Performance at low irradiance



The graph shows the change in terms of module efficiency with a variation in irradiation spanning from 200 W/m² to 1000 W/m² (with 25 °C and AM 1.5 spectrum) is equal to -2% (relative).

AZM486M



Electrical characteristics under STC (1.5 AM, IRR 1000 w/m²; temperature 25±2 °C)

Model		205
Nominal power P_{nom}	W	205
Classification in Power	%	0 / + 3
Voltage at Pmax V_{mp}	V	24,91
Current at Pmax I_{mp}	A	8,23
Open-circuit voltage V_{oc}	V	29,55
Short-circuit voltage I_{sc}	A	8,95
Module efficiency	%	15,57

Electrical characteristics under NOCT conditions (IRR 800 w/m²; RT = 20°C; t. Cells = 44°C; wind speed = 1 m/s, 1.5 AM)

Nominal power P_{nom}	W	150
Voltage at Pmax V_{mp}	V	22,81
Current at Pmax I_{mp}	A	6,58
Open-circuit voltage V_{oc}	V	27,04
Short-circuit voltage I_{sc}	A	7,11

Precision of measurement under STC: MPP ≤ 3%; V_{oc} , V_{mp} , I_{sc} , I_{mp} ≤ 10%
Precision of measurement under NOCT conditions: MPP ≤ 5%; V_{oc} , V_{mp} , I_{sc} , I_{mp} ≤ 10%

Glass	Prismatic tempered glass with high U value. Thickness of framed panels 3.2 mm and thickness for laminated panels 4 mm
Cells	48 (6x8) monocrystalline, 156 x 156 mm
Junction box	IP65, 3 bypass diodes, 4 mm cables w/length 100 (+) / 100 (-) cm ²
Connectors	IP68, PV4 single-contact connectors
Dimensions	1330 x 990 mm +/- 1 mm (L=1323 x 983 mm)
Weight	16 +/- 1 kg
Version	Black back sheet (N), transparent back sheet (T), laminated (L), black laminated (LN), transparent laminated (LT).

Electrical characteristics under STC (1.5 AM, IRR 1000 w/m²; temperature 25±2 °C)

Model		225
Nominal power P_{nom}	W	225
Classification in Power	%	- 0 / + 3
Voltage at Pmax V_{mp}	V	27,57
Current at Pmax I_{mp}	A	8,16
Open-circuit voltage V_{oc}	V	32,80
Short-circuit voltage I_{sc}	A	8,85
Module efficiency	%	15,25

Electrical characteristics under NOCT conditions (IRR 800 w/m²; RT = 20°C; t. Cells = 43°C; wind speed = 1 m/s, 1.5 AM)

Nominal power P_{nom}	W	165
Voltage at Pmax V_{mp}	V	25,25
Current at Pmax I_{mp}	A	6,52
Open-circuit voltage V_{oc}	V	30,02
Short-circuit voltage I_{sc}	A	7,03

Precision of measurement under STC: MPP ≤ 3%; V_{oc} , V_{mp} , I_{sc} , I_{mp} ≤ 10%
Precision of measurement under NOCT conditions: MPP ≤ 5%; V_{oc} , V_{mp} , I_{sc} , I_{mp} ≤ 10%

Glass	Prismatic tempered glass with high U value. Thickness of framed panels 3.2 mm and thickness for laminated panels 4 mm
Cells	54 (6x9) monocrystalline, 156 x 156 mm
Junction box	IP65, 3 bypass diodes, 4 mm cables w/length 100 (+) / 100 (-) cm ²
Connectors	IP68, single-contact connectors
Dimensions	1490 x 990 mm +/- 1 mm (L=1483 x 983mm)
Weight	18 +/- 1 kg
Version	Black back sheet (N), transparent back sheet (T), laminated (L), black laminated (LN), transparent laminated (LT).

AZM546M

