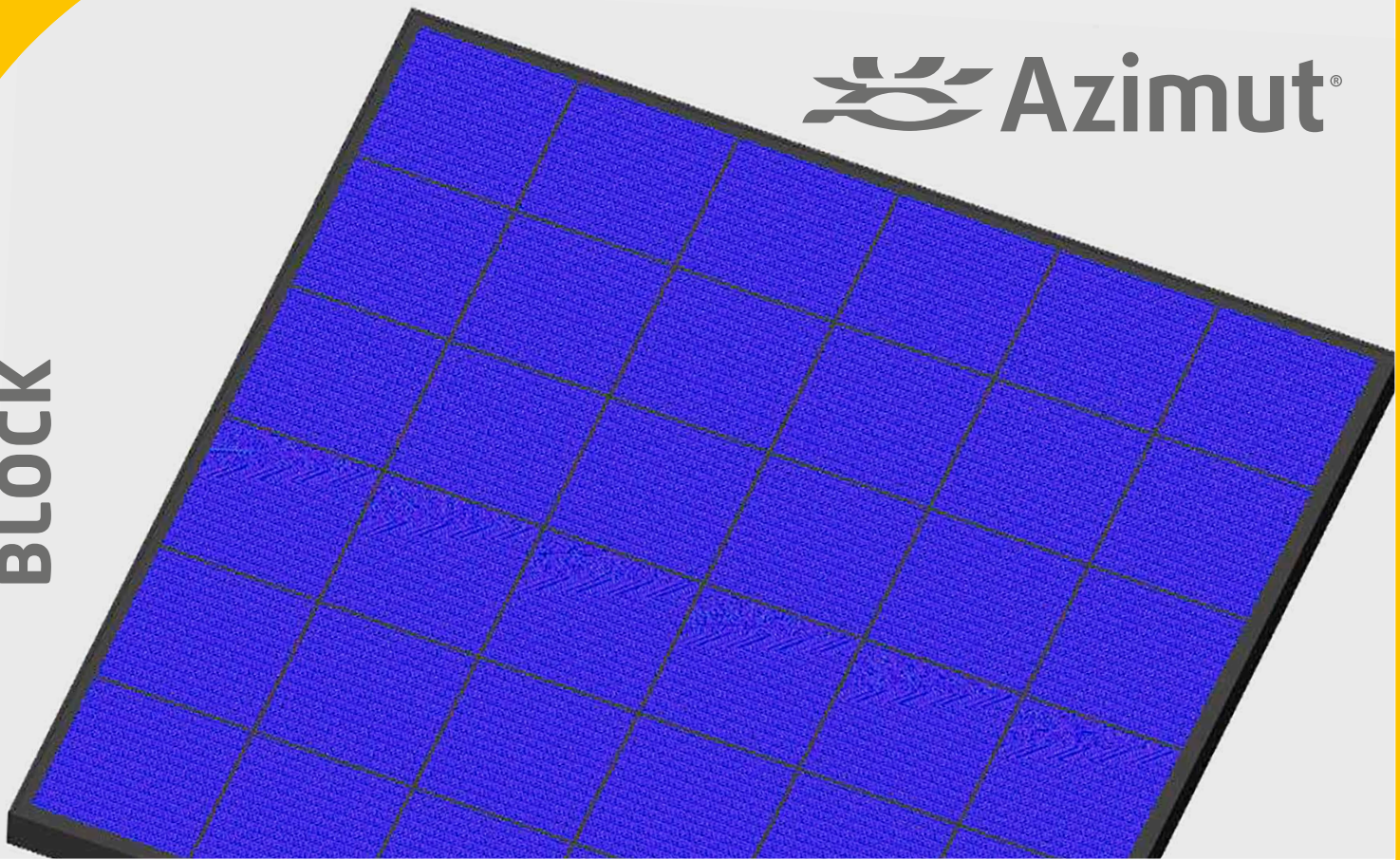


BLOCK



Product Made in Italy



Warranty on production defects: 12 years



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



Factory inspection periodica del TÜV Intercert



CLASS 1 Reaction to fire according to the UNI 9177 standard



Ammonia test according to IEC 62716



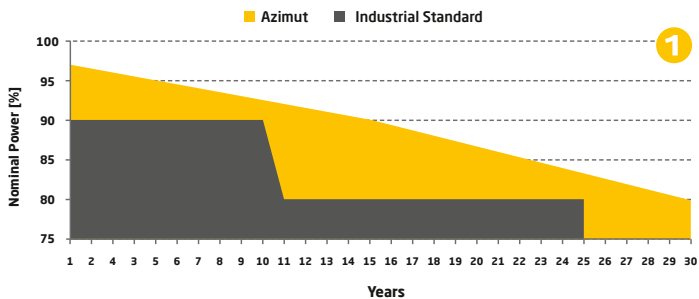
Member of the end-of-life panel recycling zero hassle to customers



Panel certifications IEC 61215 EN 61730



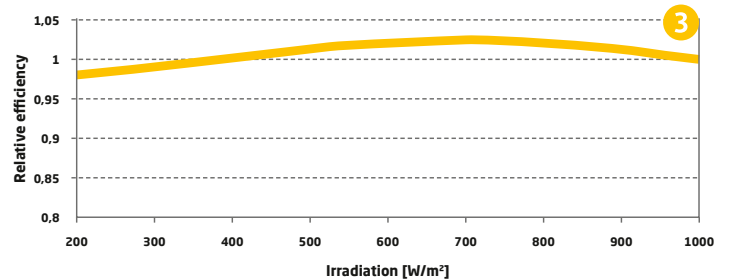
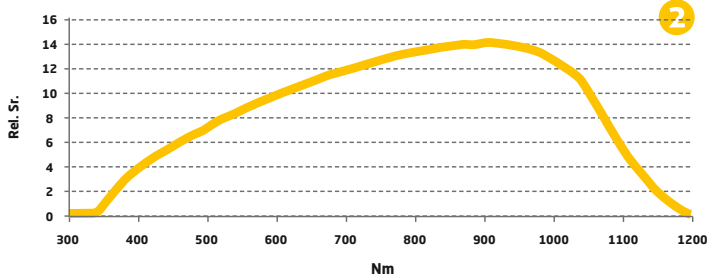
100% product traceability



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).

BLOCK

ELECTRICAL CHARACTERISTICS UNDER STC (AM 1,5, IRR 1000W/m²; temperature 25±2 °C)

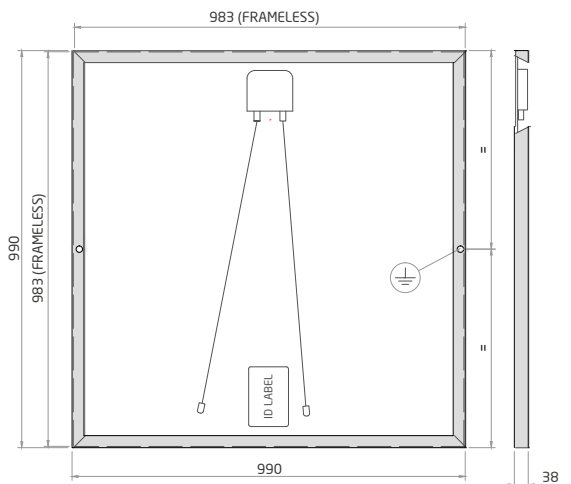
Model		BLOCK 150 P	BLOCK 150 M
Nominal power P_{nom}	W	150	150
Classification in Power	%	- 0 / + 3	
Voltage at P_{max} V_{mp}	V	18,59	18,27
Current at P_{max} I_{mp}	A	8,07	8,21
Open-circuit voltage V_{oc}	V	22,81	21,70
Short-circuit voltage I_{sc}	A	8,60	8,92
Module efficiency	%	15,30	15,30

ELECTRICAL CHARACTERISTICS UNDER NOCT CONDITIONS (IRR 800 w/m²; RT = 20°C; t. Cells = 43°C; wind speed = 1 m/s, AM 1,5)

Nominal power P_{nom}	W	110	110
Voltage at P_{max} V_{mp}	V	17,02	16,73
Current at P_{max} I_{mp}	A	6,45	6,56
Open-circuit voltage V_{oc}	V	20,87	19,85
Short-circuit voltage I_{sc}	A	6,87	7,09

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%

Cells	36 polycrystalline or monocrystalline, 156 x 156 mm
Junction box	IP65, 3 bypass diodes, 4 mm ² cables w/length 100 (+) / 100 (-) cm
Connectors	IP67, MC4 single-contact connectors
Dimensions	990 x 990 mm +/- 1 mm
Weight	12 +/- 1 kg



Operation Characteristics/Build

Maximum system voltage	V	1000
Maximum series fuse rating I_R	A	13
Temperature coefficient P_{mp} (γ)	%/°C	-0,42 (polycrystalline) and 0,48 (monocrystalline)
Temperature coefficient V_{oc} (β)	%/°C	-0,32 (polycrystalline) and 0,38 (monocrystalline)
Temperature coefficient I_{sc} (α)	%/°C	0,08 (polycrystalline) and 0,07 (monocrystalline)
NOCT	°C	43 +/-1 (polycrystalline) and 44 (monocrystalline)
Service temperature	°C	from -40°C to +85°C
Safety class		II
Snow load / Max. wind speed	Pa	5400
Resistance to hail impact		Ø 25 mm at 83 km/h
Glass	tempered, prismatic, high transmittance glass. 3.2 mm thickness	
Encapsulating agent	2 sheets of 0.46 mm EVA	
Protective backing	Multilayer/trasparent polyester lamination, 0.32 mm thick	
Frame	Al 6060 T5, thickness 38 mm	