

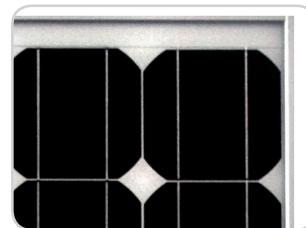
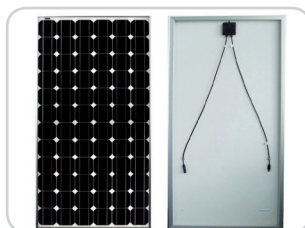


AZUR M 190-3

Monocrystalline silicon high-power panel
with a peak power rating of 190W

- +5 W /-0 W output tolerance ensure a high productivity
- Minimized power drop of partially shaded areas by the use of bypass-diodes
- Flash report for each panel upon request
- Also available in black

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Monocrystalline silicon high-power panel with a peak power rating of 190 W

ELECTRICAL CHARACTERISTICS

Standard test conditions: irradiation 1,000 W/m ² ; module temperature 25 °C		
Maximum power +5 W / -0 W	P _{max}	190 Wp
Open circuit voltage	V _{oc}	45.2 V
Maximum power voltage	V _{mpp}	36.5 V
Maximum power current	I _{mpp}	5.2 A
Short circuit current	I _{sc}	5.6 A
Modul efficiency	η	14.9 %
Maximum system voltage	V _{DC}	1,000 V
Maximum reverse current	I _R	10 A

TEMPERATURE COEFFICIENTS

NOCT		47 ± 2 °C
Operating temperature		-40 °C to +85 °C
Temperature coefficient	αI _{sc}	+0.042 %/°C
	αV _{oc}	-0.400 %/°C
	αP _{max}	-0.539 %/°C

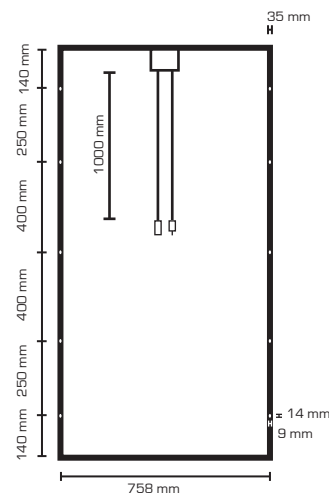
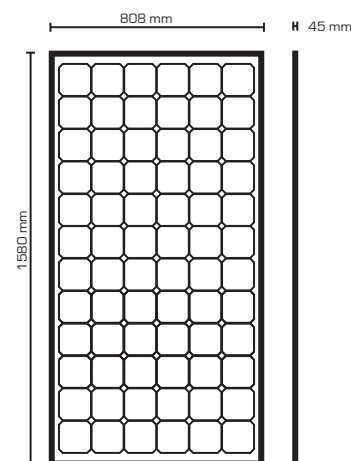
MECHANICAL CHARACTERISTICS

Dimensions (L x W x H)	1,580 x 808 x 45 mm
Weight	15.5 kg
Junction box	3 bypass-diodes
Cable/Connections	4 mm ² x 1,000 mm length, MC-4 / MC-4 compatible
Glass type	toughened safety glass, high transmis, low iron, tempered glass 3.2 mm
Solar cells	monocrystalline photovoltaic cells 125 x 125 mm, 72 serial connection
Cell encapsulation sheet	EVA (ethylene vinyl acetate)
Frame	anodized aluminium profile with drainage holes
Mechanical load	≤ 5,400 Pa

GUARANTEES & CERTIFICATE

Warranty period	5 years
Guaranteed power output	10 years: 90 % of nominal power rating
	25 years: 80 % of nominal power rating
Certificates	TUV: IEC 61215, IEC 61730
	MCS: Certificate Number BAPT 8528

DIMENSIONS



Your specialist retailer



Certificate Number BAPT 8528

For further information:
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