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**BLACK**

High-performance module with monocrystalline silicon solar cells

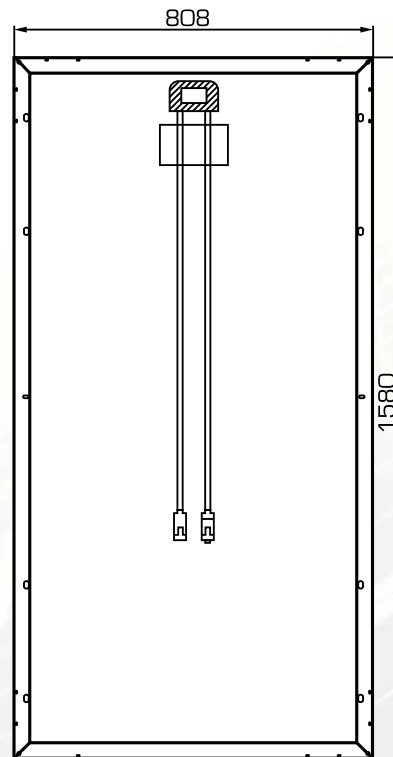
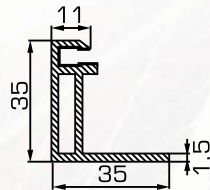
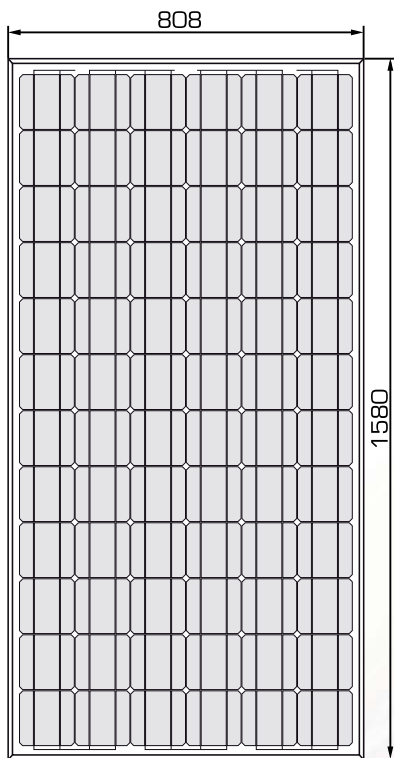
## The ANTARIS M 5" series

The monocrystalline high-performance module from the AS M series is suitable for roof-mounted and roof-integrated installation for all types of roofs. The TEC Institute for Technical Innovations has tested modules from 12 renowned module brands. The test was conducted under real conditions. With the comparison test, the ANTARIS AS M 185 module was awarded the best result of 1.1 for achieving the highest energy yield per individual module.\*

We have granted the ANTARIS SOLAR AS M SERIES a **30-year performance warranty** and a **12-year product warranty** – which is unique in the industry.



\* Test result from the TEC-Institut für Technische Innovation GmbH & Co. KG



All specifications in mm

## ANTARIS SOLAR AS M SERIES

	M 180	M 185	M 190
Rated output + / - 3%	180 Wp	185 Wp	190 Wp
Open circuit voltage	44.2 V	44.5 V	44.9 V
Short circuit current	5.3 A	5.5 A	5.5 A
Rated voltage	36.1 V	36.3 V	36.5 V
Rated current	5 A	5.1 A	5.2 A
Max. reverse current $I_R$	10 A	10 A	10 A
Efficiency	14.1 %	14.5 %	14.9 %

(Standard test conditions, irradiation: 1,000 W/m<sup>2</sup>, module temperature: 25°C)

## GENERAL DATA

External dimensions	1580 x 808 x 35 mm	Plug connection	MC 4-compatible
Total number of cells	72 units	Max. system voltage	1,000 V
Dimensions of individual cells	125 x 125 mm	Wind load	60 m/s (200 kg/m <sup>2</sup> )
Weight	15 kg	Hail test	227 g steel ball from 1 m height
Bypass diodes	3 units	Product warranty	12 years
Temperature coefficient $I_{sc}$	+0.10 % / K	Performance warranty	10 years at 90% 30 years at 80% of the min. rated output
Temperature coefficient $V_{oc}$	-0.37 % / K	Certificates	TÜV certificates: ISO 9001, IEC 61215, IEC 61730
Temperature coefficient $P_{mp}$	-0.45 % / K		