

ELECTRICAL CHARACTERISTICS AT STC¹

Nominal Power (Pmax)	[Wp]	285	290	295	300
Tolerance on Nominal Power Pmax ²	[W]	0-5	0-5	0-5	0-5
Maximum Power Voltage (Vmp)	[V]	31.9	32.0	32.1	32.2
Maximum Power Current (Imp)	[A]	8.94	9.07	9.20	9.32
Open Circuit Voltage (Voc)	[V]	38.9	39.2	39.4	39.5
Short Circuit Current (Isc)	[A]	9.56	9.65	9.73	9.84
Module Efficiency η_m		17.5%	17.8%	18.1%	18.4%
Maximum System Voltage	[V]	1000	1000	1000	1000
Series Fuse Maximum Rating	[A]	15	15	15	15

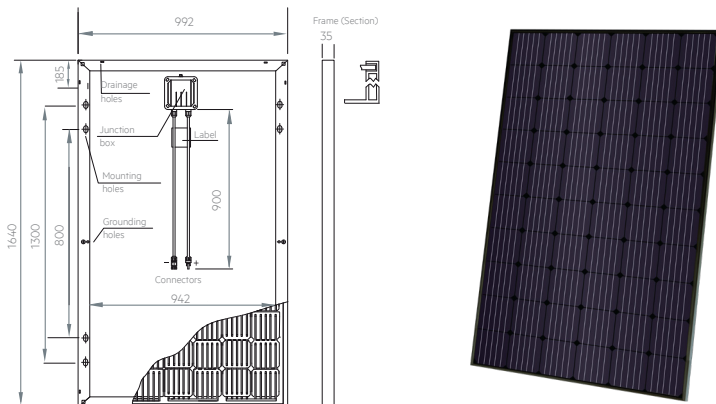
ELECTRICAL CHARACTERISTICS NOCT³

Product type: AS-M605B-xxx (xxx=285-300)		285	290	295	300
Maximum Power (Pmax)	[W]	209	212	216	219
Maximum Power Voltage (Vmp)	[V]	29.4	29.6	29.8	30.0
Maximum Power Current (Imp)	[A]	7.11	7.17	7.25	7.30
Open Circuit Voltage (Voc)	[V]	35.8	36.1	36.3	36.5
Short Circuit Current (Isc)	[A]	7.73	7.79	7.86	7.97

MECHANICAL CHARACTERISTICS

Solar cells	60 (6 x 10) monocrystalline silicon, 156.75 x 156.75 mm (6") cells
Front glass	3.2 mm (1.25") high-transparency AR coating glass
Backsheet	black
Encapsulant	EVA (Ethylene-Vinyl Acetate)
Frame	Anodized aluminum alloy, black
Junction box	IP67 rated, 3 bypass diodes
Cables	UVresistant cable, 900 / 1000 mm (35.43" / 39.37"), sec.4.0 mm ²
Connectors	MC4 compatible connectors
Dimensions	1640 mm x 992 mm x 35 mm (64.6" x 39" x 1.37")
Weight	18.5 kg (40.8 lbs)
Maximum load	Wind: 2400 Pa / Snow: 5400 Pa

TECHNICAL DRAWINGS



Modulmaße sind in mm ausgedrückt mit einer Toleranz von ± 2 mm (± 0.079 ")

Module dimensions in the technical picture are expressed in mm with tolerance ± 2 mm (± 0.079 ")

1- Standard Test Conditions (STC): Irradiance 1000 W/m², Air Mass AM = 1.5, Cell Temperature 25°C, Power measurement uncertainty within $\pm 3\%$.

2- AEG photovoltaic modules are classified according to a principle of positive power tolerance: the Power Output measured at STC of the delivered modules exceeds their assigned Nameplate Nominal Power at STC

with a power tolerance range between -0 Wp and +5 Wp.

3 - Normal Operating Cell Temperature (NOCT): Irradiance 800 W/m², Wind Speed 1m/s, Ambient Temperature 20°C, Power measurement uncertainty within $\pm 3\%$.

4 - No less than 97% of the minimum 'Peak Power at STC' in the first year; power output decline no more than 0.7% per year (thereafter). Full text of the Warranty Terms available at: www.aeg-industrialsolar.de

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TEMPERATURE CHARACTERISTICS

NOCT	45°C \pm 2°C
Pmax Temp. Coefficient γ)	-0.40 %/K
Voc Temp. Coefficient β)	-0.31 %/K
Isc Temp. Coefficient α)	0.06 %/K
Operating temperature	-40°C to + 85°C

PACKING CONFIGURATION

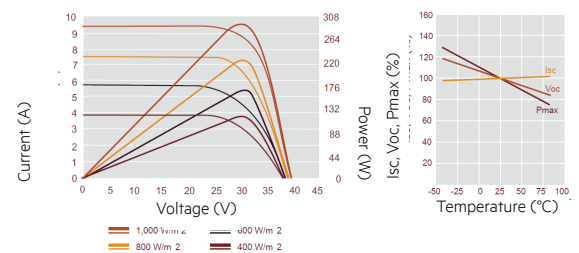
Packing configuration	30 pcs / pallet
Loading capacity	840 pcs / 40 ft HC

WARRANTIES

Product warranty	12 years
Performance warranty	25 years, linear ⁴

I-V CURVES / IRRADIANCES

Test temperature: 25 °C Module: 285 Wp



CONTACT US



Distributeur van AEG fotovoltaïsche producten in de Benelux:

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