

AS-M602 SOLAR MODULE

275 - 285 Wp
60 MONOCRYSTALLINE CELLS

High efficiency photovoltaic module with reliable power output ensuring high yields and performance over time. Also available in „full black“.

AEG solar modules are made of carefully selected and tested components to ensure the highest quality, reliable efficiency and a long product life-time.

The AEG AS-M602 solar module delivering up to 285 Wp represents a highly flexible solution for all kinds of installation types - from small scale home systems up to commercial installations and utility scale ground-mounted systems.

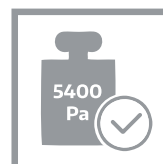
AEG solar modules feature the latest certifications such as TÜV, etc. to ensure the highest quality and reliability. Our production facilities comply with acknowledged international system standards such as ISO 9001, 14001 and OHSAS 18001. The AEG AS-M602 solar module (also available in „full black“)



offers a range of benefits as a 10 years limited product warranty as well as a limited power warranty for 25 years covering 90 % of nominal power output for the first 12 years and another 15 years with 80 % of the nominal power output.



Comprehensively certified



Extended wind and snow load tests



High ammonia and salt mist resistance

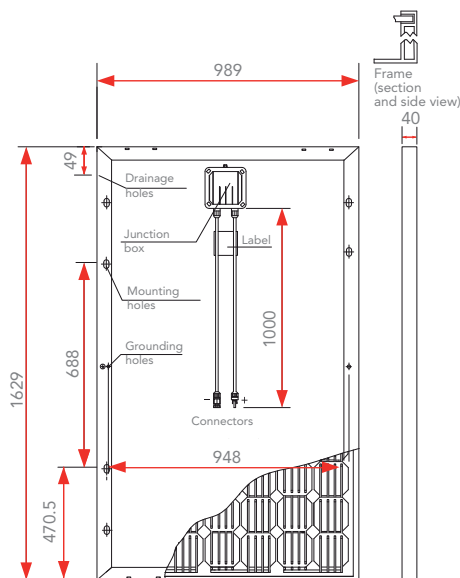


High module conversion efficiency

AEG
perfekt in form und funktion

AS-M602 SOLAR MODULE

60 cells per module (156 x 156 mm / 6")



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

TEMPERATURE CHARACTERISTICS:

NOCT	43°C \pm 2°C
P _{max} Temp. Coeff. (γ)	-0,42 1%/°K
V _{oc} Temp. Coeff. (β)	-0,297 %/°K
I _{sc} Temp. Coeff. (α)	0.049 %/°K
Operating temperature	-40°C to + 85°C

PACKING CONFIGURATION:

Packing Config.	26 pcs / pallet
Loading Capacity	728 pcs / 40 ft HC

ELECTRICAL CHARACTERISTICS AT STC*:

Module Type: AS-M602		275	280	285
Nominal Power (P _{max})	[Wp]	275	280	285
Tolerance on Nominal Power P _{max} **	[Wp]	-0 / +5	-0 / +5	-0 / +5
Maximum Power Voltage (V _{mp})	[V]	30.35	30.50	30.68
Maximum Power Current (I _{mp})	[A]	9.07	9.19	9.29
Open Circuit Voltage (V _{oc})	[V]	37.83	38.08	38.32
Short Circuit Current (I _{sc})	[A]	9.44	9.55	9.66
Module Efficiency (η_m)		17.07%	17.38%	17.69%
Maximum System Voltage	[V]	1000	1000	1000
Series Fuse Maximum Rating	[A]	15	15	15

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

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

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MECHANICAL CHARACTERISTICS

Solar Cells	60 (6 x 10) monocrystalline silicon, 156 x 156 mm (6") solar cells
Front Glass	3.2 mm (0.13") high-transparency AR coating glass
Backsheet	White or black backsheet (optional)
Encapsulant	EVA (Ethylene-Vinyl Acetate)
Frame	Anodized aluminum alloy
Junction Box	IP67 rated, with 3 bypass diodes
Cables	UV resistant solar cable 1000 mm (39.37"), sec. 4.0 mm ² (12 AWG)
Connectors	MC4 compatible connectors
Dimensions	1629 x 989 x 40 mm (64.13 x 38.04 x 1.57 ")
Weight	19 kg (41.9 lbs)
Max. Load	Wind load: 2400 Pa / Snow load: 5400 Pa

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