

AS-M606-P SOLAR MODULE

MONOCRYSTALLINE CELLS
285 - 295 Wp

Premium photovoltaic module with
PERC technology
and higher efficiency
for improved BOS.



AEG solar modules combine the most advanced technology with high reliability in manufacture to offer you a product meant for high achievements. The AEG solar module AS-M606-P delivering up to 295 Wp features PERC coating, which allows you to gain over 20% extra cell efficiency and boost the performances of your solar plant. The PERC ("Passivated Emitter Rear Cell") process increases solar cell efficiency on p-type monocrystalline silicon thanks to rear-sided passivation and front and rear coating, granting higher light absorption, excellent low-light performances, reducing surface required (up to -11.5 %) and improving BOS. 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 solar module AS-M606-P 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 10 years and another 15 years with 80 % of the nominal power output.



PERC Technology



Plant optimization and
yield increase



Excellent low
light performance

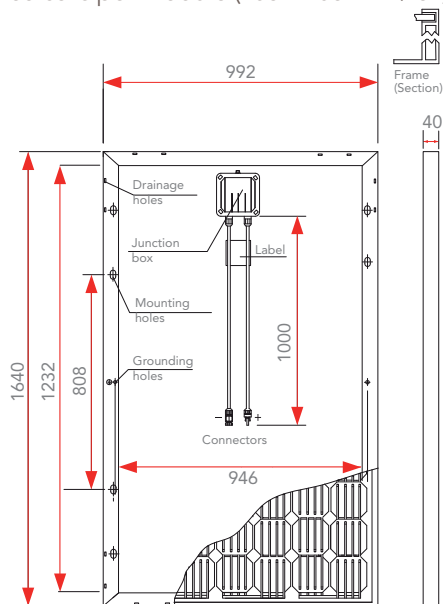


High module
conversion efficiency

AEG
perfekt in form und funktion

AS-M606 SOLAR MODULE

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



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

ELECTRICAL CHARACTERISTICS AT STC*:

Module Type: AS-M606-P		285	290	295
Nominal Power (P_{max})	[Wp]	285	290	295
Tolerance on Nominal Power P_{max}^{**}	[Wp]	-0 / +5	-0 / +5	-0 / +5
Maximum Power Voltage (V_{mp})	[V]	31.50	31.61	31.86
Maximum Power Current (I_{mp})	[A]	9.07	9.18	9.26
Open Circuit Voltage (V_{oc})	[V]	39.12	39.18	39.27
Short Circuit Current (I_{sc})	[A]	9.62	9.68	9.73
Module Efficiency (η_m)		17.5%	17.8%	18.1%
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

TEMPERATURE CHARACTERISTICS:

NOCT	44°C \pm 2°C
P_{max} Temp. Coeff. (γ)	-0.427 %/°C
V_{oc} Temp. Coeff. (β)	-0.318 %/°C
I_{sc} Temp. Coeff. (α)	0.042 %/°C
Operating temperature	-40°C to + 85°C

PACKING CONFIGURATION:

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

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 backsheet
Encapsulant	EVA (Ethylene-Vinyl Acetate)
Frame	Anodized aluminum alloy
Junction Box	IP67 rated, 3 bypass diodes
Cables	UV resistant solar cable 1000 mm (39.37"), sec. 4.0 mm ² (12 AWG)
Connectors	MC4 compatible connectors
Dimensions	1640 x 992 x 40 mm (64.5 x 39.1 x 1.57 ")
Weight	18.5 kg (40.8 lbs)
Max. Load	Wind load: 2400 Pa / Snow load: 5400 Pa

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