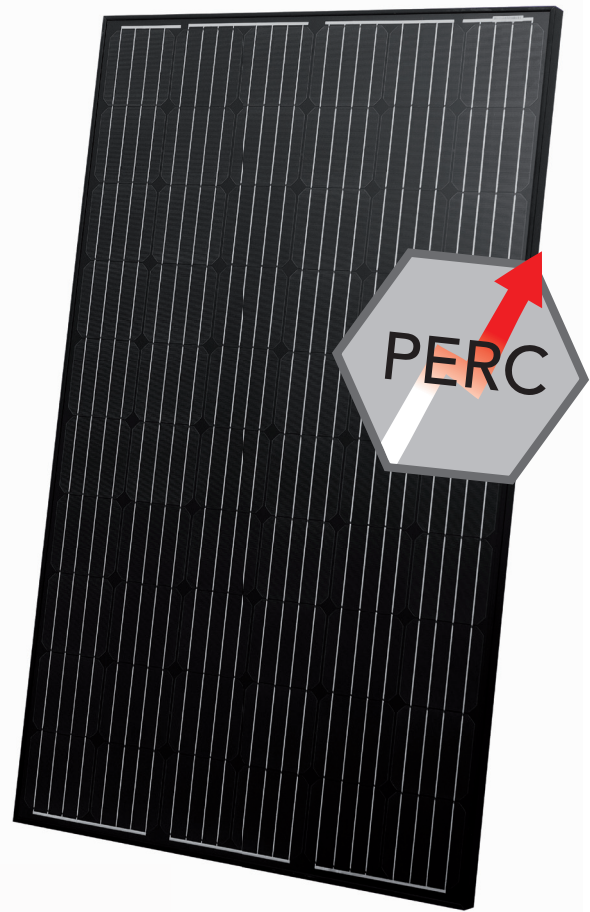


# AS-M606B-P SOLAR MODULE

60 MONOCRYSTALLINE CELLS  
280 - 290 Wp

Premium photovoltaic module  
with PERC technology  
and higher efficiency  
for improved BOS  
and great aesthetic value

AEG solar modules combine the most advanced technology with high reliability in manufacture to offer you a product meant for high achievements. The full-black AEG solar module AS-M606B-P delivering up to 290 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 AS-M606B-P solar module offers a range of benefits as a 10 years limited product warranty as well as a linear power warranty for 25 years (power output 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). The product comes in full-black with black frames and backsheet to add an extra aesthetic value to your installation.



PERC Technology



Plant optimization and  
yield increase



Added aesthetical  
value for residential

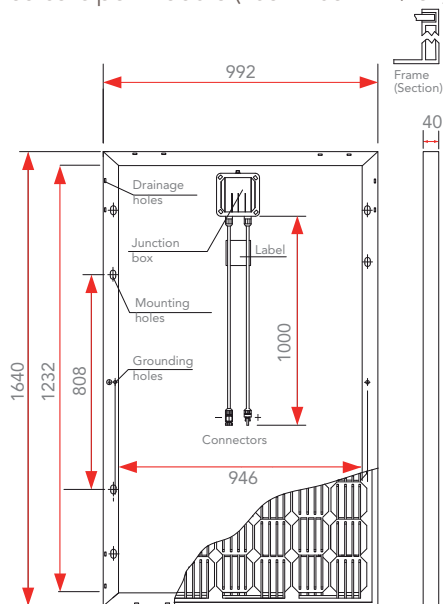


High module  
conversion efficiency

**AEG**  
perfekt in form und funktion

# AS-M606B-P SOLAR MODULE

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



Module dimensions are expressed in mm with tolerance  $\pm 2$  mm ( $\pm 0.079$  ")

## ELECTRICAL CHARACTERISTICS AT STC\*:

Module Type: AS-M606B-P		280	285	290
Nominal Power ( $P_{max}$ )	[Wp]	280	285	290
Tolerance on Nominal Power $P_{max}^{**}$	[Wp]	-0 / +5	-0 / +5	-0 / +5
Maximum Power Voltage ( $V_{mp}$ )	[V]	31.69	31.81	32.02
Maximum Power Current ( $I_{mp}$ )	[A]	8.84	8.96	9.06
Open Circuit Voltage ( $V_{oc}$ )	[V]	39.05	39.16	39.31
Short Circuit Current ( $I_{sc}$ )	[A]	9.39	9.49	9.59
Module Efficiency ( $\eta_m$ )		17.2%	17.5%	17.8%
Maximum System Voltage	[V]	1000	1000	1000
Series Fuse Maximum Rating	[A]	15	15	15

\*Standard Test Conditions (STC): Irradiance 1000 W/m<sup>2</sup>, 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	46°C $\pm$ 2°C
$P_{max}$ Temp. Coeff. ( $\gamma$ )	-0.427 %/°C
$V_{oc}$ Temp. Coeff. ( $\beta$ )	-0.318 %/°C
$I_{sc}$ Temp. Coeff. ( $\alpha$ )	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	Black backsheet
Encapsulant	EVA (Ethylene-Vinyl Acetate)
Frame	Anodized aluminum alloy, black
Junction Box	IP67 rated, 3 bypass diodes
Cables	UV resistant solar cable 1000 mm (39.37"), sec. 4.0 mm <sup>2</sup> (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

Distributeur in de Benelux van AEG Industrial Solar producten:



VDH Solar Groothandel B.V.  
Frankrijklaan 9,  
2391 PX Hazerswoude-Dorp, Holland  
+31 (0)172 235 990 | info@vdh-solar.nl  
www.vdh-solar.nl

www.aeg-industrialsolar.de

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