



## 290 - 310 Wp 60 MONOCRYSTALLINE CELLS

AEG solar modules combine the most advanced technology with high reliability in manufacture to offer you a product meant for high achievements.



## HIGH EFFICIENCY SOLAR MODULES

The AEG solar module AS-M605 is designed to maximize efficiency, allowing you to gain extra yields and boost the performances of your plant.



## THOROUGHLY TESTED AND GUARANTEED

The manufacturing processes of AEG solar modules follow rigorous quality criteria to provide a guaranteed and long-lasting product

### COMPREHENSIVELY CERTIFIED

AEG solar modules and production facilities are compliant with the the latest standards to guarantee safety and reliability. Production facilities are certified according to ISO 9001, ISO 14001 and OHSAS 18001. AEG solar products are certified among others by:



### YOUR ADVANTAGE AT A GLANCE

Premium solar panel with quality components  
High efficiency - up to 310 Wp  
Product certified IEC 61215, IEC 61730  
10 years Product warranty  
25 years linear Power warranty

More on: [www.aeg-industrialsolar.de](http://www.aeg-industrialsolar.de)



# PHOTOVOLTAIC MODULE AS-M605



## ELECTRICAL CHARACTERISTICS AT STC<sup>1</sup>

Nominal Power (P <sub>max</sub> )	[Wp]	290	295	300	305	310
Tolerance on Nominal Power P <sub>max</sub> <sup>2</sup>	[W]	0-5	0-5	0-5	0-5	0-5
Maximum Power Voltage (V <sub>mp</sub> )	[V]	32.0	32.1	32.2	32.4	32.6
Maximum Power Current (I <sub>mp</sub> )	[A]	9.07	9.20	9.32	9.42	9.51
Open Circuit Voltage (V <sub>oc</sub> )	[V]	39.2	39.4	39.5	39.9	40.1
Short Circuit Current (I <sub>sc</sub> )	[A]	9.65	9.73	9.84	9.94	10.04
Module Efficiency (η <sub>m</sub> )		17.8%	18.1%	18.4%	18.7%	19.1%
Maximum System Voltage	[V]	1000	1000	1000	1000	1000
Series Fuse Maximum Rating	[A]	15	15	15	15	15

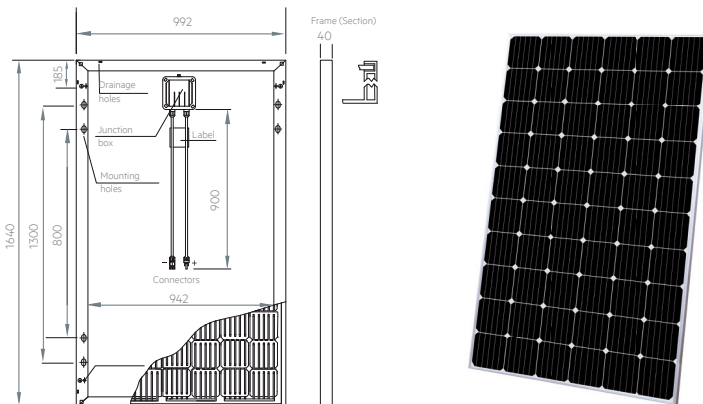
## ELECTRICAL CHARACTERISTICS NOCT<sup>2</sup>

Product type: AS-M606B-xxx (xxx=280-300)		290	295	300	305	310
Maximum Power (P <sub>max</sub> )	[W]	212	216	219	223	227
Maximum Power Voltage (V <sub>mp</sub> )	[V]	29.6	29.8	30.0	30.3	30.6
Maximum Power Current (I <sub>mp</sub> )	[A]	7.17	7.25	7.30	7.36	7.42
Open Circuit Voltage (V <sub>oc</sub> )	[V]	36.1	36.3	36.5	36.9	37.1
Short Circuit Current (I <sub>sc</sub> )	[A]	7.79	7.86	7.97	8.05	8.13

## 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	White backsheet
Encapsulant	EVA (Ethylene-Vinyl Acetate)
Frame	Anodized aluminum alloy, silver colour
Junction box	IP67 rated, 3 bypass diodes
Cables	UV resistant cable 900 / 1000 mm (35.43" / 39.37"), sec.4.0 mm <sup>2</sup>
Connectors	MC4 compatible connectors
Dimensions	1640 mm x 992 mm x 40 mm (64.6" x 39" x 1.57")
Weight	18.5 kg (40.8 lbs)
Maximum load	Wind: 2400 Pa / Snow: 5400 Pa

## TECHNICAL DRAWINGS



Module dimensions in the technical picture are expressed in mm with tolerance ±2 mm (+0/0.79°)  
 1- Standard Test Conditions (STC): Irradiance 1000 W/m<sup>2</sup>, Air Mass AM = 1.5, Cell Temperature 25°C; Power measurement uncertainty within ± 3%.  
 2- Normal Operating Cell Temperature (NOCT): Irradiance 800 W/m<sup>2</sup>, Wind Speed 1m/s; Cell Temperature 25°C, Ambient Temperature 20°C; Power measurement uncertainty within ± 3%.  
 3- 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.  
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## TEMPERATURE CHARACTERISTICS

NOCT	45°C ± 2°C
P <sub>max</sub> Temp. Coefficient (γ)	-0.40 %/K
V <sub>oc</sub> Temp. Coefficient (β)	-0.31 %/K
I <sub>sc</sub> Temp. Coefficient (α)	0.06 %/K
Operating temperature	-40°C to + 85°C

## PACKING CONFIGURATION

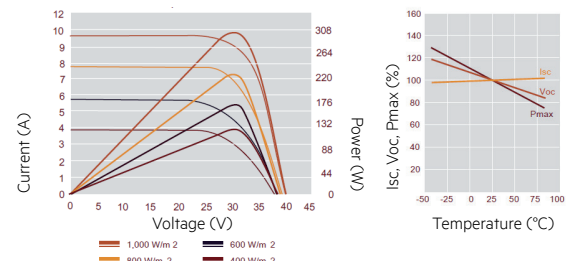
Packing configuration	26 pcs / pallet
Loading capacity	728 pcs / 40 ft HC

## WARRANTIES

Product warranty	10 years
Performance warranty	25 years, linear <sup>3</sup>

## I-V CURVES / IRRADIANCES

Test temperature: 25 °C    Module: 305 Wp



## CONTACT US

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