

270-285 Wp 60 POLYCRYSTALLINE 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-P605 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 285 Wp
Product certified IEC 61215, IEC 61730
12 years Product warranty
25 years linear Power warranty

More on: www.aeg-industrialsolar.de



ELECTRICAL CHARACTERISTICS AT STC¹

Nominal Power (P _{max})	[Wp]	270	275	280	285
Tolerance on Nominal Power P _{max} ²	[Wp]	-0 / +5	-0 / +5	-0 / +5	-0 / +5
Maximum Power Voltage (V _{mp})	[V]	31.0	31.2	31.4	31.6
Maximum Power Current (I _{mp})	[A]	8.71	8.82	8.92	9.02
Open Circuit Voltage (V _{oc})	[V]	38.3	38.5	38.7	38.9
Short Circuit Current (I _{sc})	[A]	9.16	9.25	9.34	9.45
Module Efficiency (η _m)		16.60%	16.90%	17.20%	17.50%
Maximum System Voltage	[V]	1000	1000	1000	1000
Series Fuse Maximum Rating	[A]	15	15	15	15

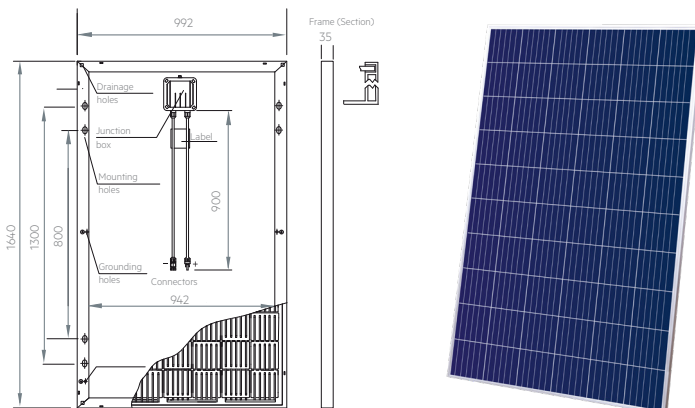
ELECTRICAL CHARACTERISTICS NOCT³

Product type: AS-P605-xxx (xxx=270-285)		270	275	280	285
Maximum Power (P _{max})	[W]	201	205	208	212
Maximum Power Voltage (V _{mp})	[V]	29.0	29.2	29.4	29.6
Maximum Power Current (I _{mp})	[A]	6.93	7.02	7.10	7.18
Open Circuit Voltage (V _{oc})	[V]	36.0	36.2	36.4	36.7
Short Circuit Current (I _{sc})	[A]	7.32	7.39	7.46	7.55

MECHANICAL CHARACTERISTICS

Solar cells	60 (6 x 10) polycrystalline silicon, 156 x 156 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 or black („zebra")
Junction box	IP67 rated, 3 bypass diodes
Cables	UV resistant 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 (64.57" x 39.06" x 1.37")
Weight	18.5 kg (40.7 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 (+0.079")

1- Standard Test Conditions (STC): Irradiance 1000 W/m², Air Mass AM = 1.5, Cell Temperature 25°C, Power measurement uncertainty within ± 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 within 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 ± 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 ± 2°C
P _{max} Temp. Coefficient (γ)	-0.41 %/°C
V _{oc} Temp. Coefficient (β)	-0.31 %/°C
I _{sc} Temp. Coefficient (α)	0.05 %/°C
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

