

AS-P605 SOLAR MODULE

250 - 270 W_p
60 POLYCRYSTALLINE CELLS

Photovoltaic module for professional requirements with reliable power output ensuring a high yield and performance. 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-P605 solar module delivering up to 270 W_p 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 AS-P605 is also available in 'full black' with black frames and backsheet, adding an extra aesthetic value to your installation.

AEG photovoltaic modules are compliant with the latest standards (IEC/EN 61215 / 61730 a.o.) to ensure the highest quality and reliability.

The production facilities fulfill the ISO 9001, 14001 and OHSAS 18001 standards. The AEG AS-P605 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).



Comprehensively certified



Excellent low light performance



Excellent load resistance



High module conversion efficiency

AEG
perfekt in form und funktion

AS-P605

60 cells pro Module (156 x 156 mm / 6")

ELECTRICAL CHARACTERISTICS AT STC*:

Module type: AS-P605

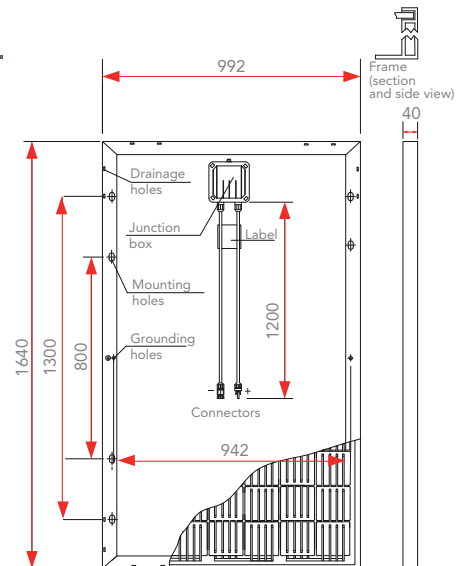
		250	255	260	265	270
Nominal Power (P_{max})	[Wp]	250	255	260	265	270
Tolerance on Nominal Power P_{max}^{**}	[Wp]	-0 / +5	-0 / +5	-0 / +5	-0 / +5	-0 / +5
Maximum Power Voltage (V_{mp})	[V]	30.2	30.4	30.6	30.80	31.0
Maximum Power Current (I_{mp})	[A]	8.28	8.39	8.50	8.61	8.71
Open Circuit Voltage (V_{oc})	[V]	37.5	37.7	37.9	38.10	38.30
Short Circuit Current (I_{sc})	[A]	8.79	8.88	8.98	9.07	9.16
Module Efficiency (η_m)		15.4 %	15.7 %	16.0%	16.3%	16.6%
Maximum System Voltage	[V]	1000	1000	1000	1000	1000
Series Fuse Maximum Rating	[A]	15	15	15	15	15

TEMPERATURE CHARACTERISTICS

NOCT	45°C ± 2°C
P_{max} Temperature Coefficient (γ)	-0.43 %/°C
V_{oc} Temperature Coefficient (β)	-0.33 %/°C
I_{sc} Temperature Coefficient (α)	0.05%/°C
Operating temperature	-40°C to + 85°C

MECHANICAL CHARACTERISTICS:

Solar Cells	60 (6 x 10) polycrystalline silicon, 156 x 156 mm (6") solar cells
Front Glass	3.2 mm (0.13") high-transparency glass
Backsheet	White or black backsheet
Encapsulant	EVA (Ethylene-Vinyl Acetate)
Frame	Anodized aluminum alloy, silver or black
Junction Box	IP67 rated, 3 bypass diodes
Cables	UV resistant cable 1100/1200 mm (43.3/47.2"), sec.4.0 mm ² (12 AWG)
Connectors	MC4 compatible connectors
Dimensions	1640 x 992 x 40 mm (64.57 x 39.06 x 1.57 ")
Weight	18.5 kg (40.79 lbs)
Max. Load	Wind: 2400 Pa / Snow: 5400 Pa



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

Module dimensions in the technical picture are expressed in mm with tolerance ±2 mm (±0.079 "). © Solar Solutions GmbH. Specifications in this datasheet are subject to change without notice. Code: AS-P605-O6N1-4BB 250-270 version 201701.1.EN

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PACKING CONFIGURATION:

Packing Configuration	26 pcs / pallet	Loading Capacity	728 pcs / 40 ft HQ
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