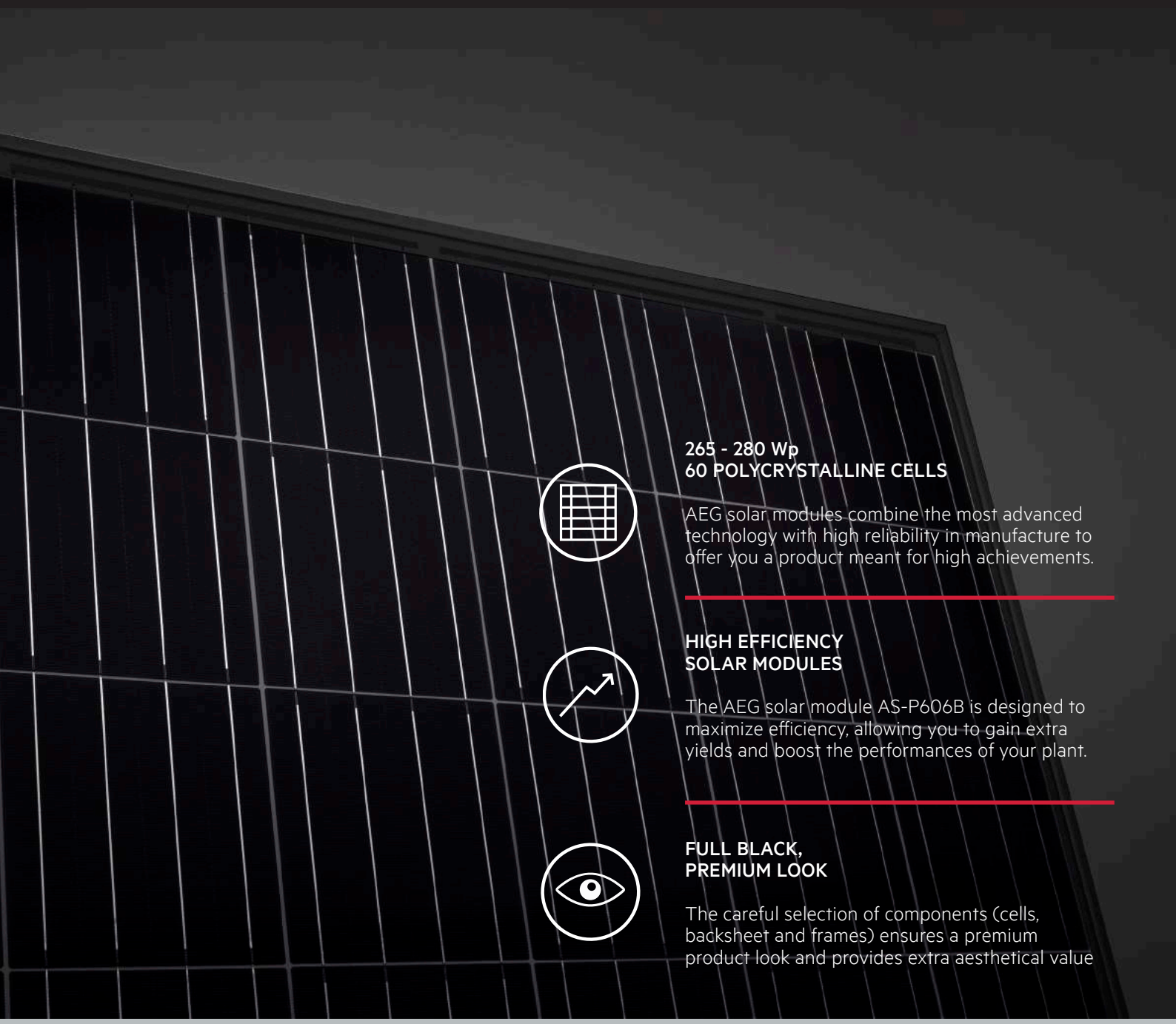
AEG

PHOTOVOLTAIC MODULE
AS-P606B



265 - 280 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-P606B is designed to maximize efficiency, allowing you to gain extra yields and boost the performances of your plant.

FULL BLACK,
PREMIUM LOOK

The careful selection of components (cells, backsheet and frames) ensures a premium product look and provides extra aesthetical value

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 280 Wp
Product certified IEC 61215, IEC 61730
10 years Product warranty
25 years linear Power warranty

More on: www.aeg-industrialsolar.de

PHOTOVOLTAIC MODULE AS-P606B

ELECTRICAL CHARACTERISTICS AT STC [1]

Nominal Power (Pmax)	[Wp]	265	270	275	280
Tolerance on Nominal Power Pmax [2]	[Wp]	-0 / +5	-0 / +5	-0 / +5	-0 / +5
Maximum Power Voltage (Vmp)	[V]	31.7	32.1	32.5	32.9
Maximum Power Current (Imp)	[A]	8.37	8.42	8.47	8.52
Open Circuit Voltage (Voc)	[V]	37.8	38.0	38.2	38.4
Short Circuit Current (Isc)	[A]	9.04	9.11	9.18	9.25
Module Efficiency (ηm)		16.3%	16.6%	16.9%	17.2%
Maximum System Voltage	[V]	1000 / 1500	1000 / 1500	1000 / 1500	1000 / 1500
Series Fuse Maximum Rating	[A]	15	15	15	15

ELECTRICAL CHARACTERISTICS NOCT [3]

Product type: AS-P606B-xxx (xxx=265-280)		265	270	275	280
Maximum Power (Pmax)	[W]	195	198	202	206
Maximum Power Voltage (Vmp)	[V]	29.3	29.7	30.1	30.4
Maximum Power Current (Imp)	[A]	6.64	6.68	6.72	6.75
Open Circuit Voltage (Voc)	[V]	35.0	35.2	35.4	35.6
Short Circuit Current (Isc)	[A]	7.30	7.36	7.42	7.47

MECHANICAL CHARACTERISTICS

Solar cells	60 (6 x 10) polycrystalline silicon, 156.75 x 156.75 mm (6") cells
Front glass	3.2 mm (1.25") 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 cable 900 mm (35.43"), sec.4.0 mm²
Connectors	MC4 compatible connectors
Dimensions	1640 mm x 992 mm x 35 mm (64.6" x 39" x 1.4")
Weight	18.5 kg (40.8 lbs)
Maximum load	Wind: 2400 Pa / Snow: 5400 Pa

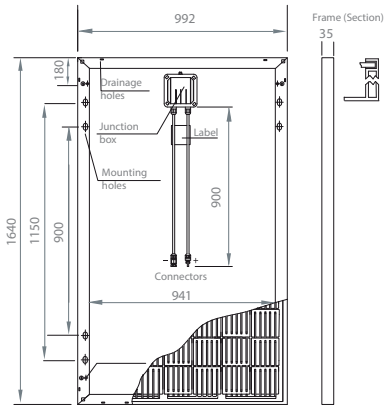
TEMPERATURE CHARACTERISTICS

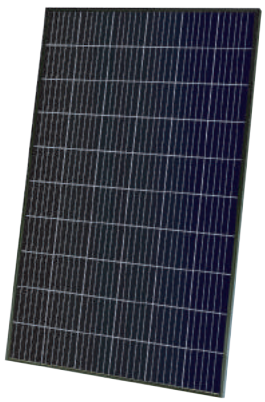
NOCT	45°C ± 2°C
Pmax Temp. Coefficient (γ)	-0.41 %/K
Voc Temp. Coefficient (β)	-0.32 %/K
Isc Temp.Coefficient (α)	0.05%/K
Operating temperature	-40°C to + 85°C

PACKING CONFIGURATION

Packing configuration	30 pcs / pallet
Loading capacity	840 pcs / 40 ft HC

TECHNICAL DRAWINGS



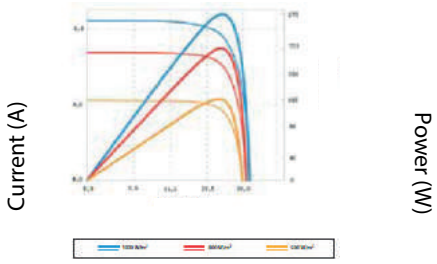


WARRANTIES

Product warranty	10 years
Performance warranty	25 years, linear [4]

I-V CURVES / IRRADIANCES

Test temperature: 20 °C



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; Cell Temperature 25°C;, 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)

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