



320 - 325 Wp 120 MONOCRYSTALLINE HALF-CUT CELLS

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



OPTIMIZED DESIGN MAXIMUM EFFICIENCY

The AEG solar module AS-M1206B with half-cut cell technology is designed to minimize cell-to-module power losses, boosting the performances of your installation



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 325 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 (Pmax) | [Wp] | 320 | 325 |
| Tolerance on Nominal Power Pmax ² | [Wp] | -0 / +5 | -0 / +5 |
| Maximum Power Voltage (Vmp) | [V] | 33.7 | 33.9 |
| Maximum Power Current (Imp) | [A] | 9.51 | 9.60 |
| Open Circuit Voltage (Voc) | [V] | 40.6 | 40.8 |
| Short Circuit Current (Isc) | [A] | 10.34 | 10.45 |
| Module Efficiency (ηm) | | 19.4% | 19.7% |
| Maximum System Voltage | [V] | 1000 | 1000 |
| Series Fuse Maximum Rating | [A] | 15 | 15 |

ELECTRICAL CHARACTERISTICS NOCT³

| | | | |
|---|-----|------|------|
| Product type: AS-M1206B-xxx (xxx=320-325) | | 320 | 325 |
| Maximum Power (Pmax) | [W] | 237 | 241 |
| Maximum Power Voltage (Vmp) | [V] | 31.8 | 32.0 |
| Maximum Power Current (Imp) | [A] | 7.45 | 7.53 |
| Open Circuit Voltage (Voc) | [V] | 38.4 | 38.6 |
| Short Circuit Current (Isc) | [A] | 8.35 | 8.44 |



MECHANICAL CHARACTERISTICS

| | |
|--------------|---|
| Solar cells | 120 monocrystalline silicon, 156.75 x 78.37 mm (half-cut) 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 |
| Cables | UV resistant cable, sec.4.0 mm ² |
| Connectors | MC4 compatible connectors |
| Dimensions | 1640 mm x 992 mm x 35 mm (64.5" x 39.1" x 1.4") |
| Weight | 18.5 kg (40.8 lbs) |
| Maximum load | Wind: 2400 Pa / Snow: 5400 Pa |

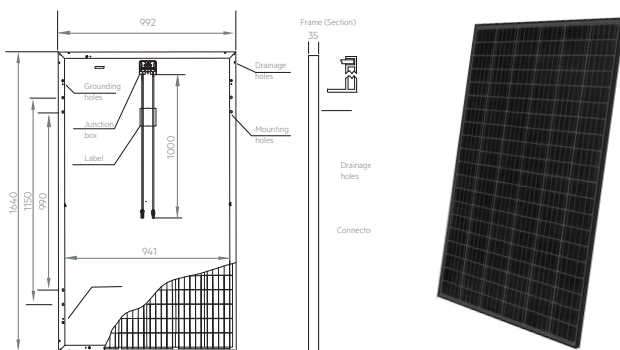
TEMPERATURE CHARACTERISTICS

| | |
|----------------------------|-----------------|
| NOCT | 44°C ± 2°C |
| Pmax Temp. Coefficient (γ) | -0.365 %/K |
| Voc Temp. Coefficient (β) | -0.275 %/K |
| Isc Temp. Coefficient (α) | 0.063%/K |
| Operating temperature | -40°C to + 85°C |

PACKING CONFIGURATION

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

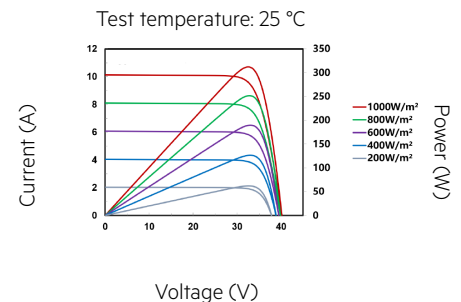
TECHNICAL DRAWINGS



WARRANTIES

| | |
|----------------------|-------------------------------|
| Product warranty | 12 years |
| Performance warranty | 25 years, linear ⁴ |

I-V CURVES / IRRADIANCES



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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