



## 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 290 Wp  
Product certified IEC 61215, IEC 61730

**20 years Product warranty - exclusive for Members of the AEG Certified Installer Programme**  
25 years linear Power warranty



# PHOTOVOLTAIC MODULE AS-M1206B-H

# AEG

## ELECTRICAL CHARACTERISTICS AT STC<sup>1</sup> AS-M1206B-H-320 AS-M1206B-H-325

Nominal Power (P <sub>max</sub> )	[Wp]	320	325
Tolerance on Nominal Power P <sub>max</sub> <sup>2</sup>	[Wp]	-0 / +5	-0 / +5
Maximum Power Voltage (V <sub>mp</sub> )	[V]	33.7	33.9
Maximum Power Current (I <sub>mp</sub> )	[A]	9.51	9.60
Open Circuit Voltage (V <sub>oc</sub> )	[V]	40.6	40.8
Short Circuit Current (I <sub>sc</sub> )	[A]	10.34	10.45
Module Efficiency (η <sub>m</sub> )		19.4%	19.7%
Maximum System Voltage	[V]	1000	1000
Series Fuse Maximum Rating	[A]	15	15

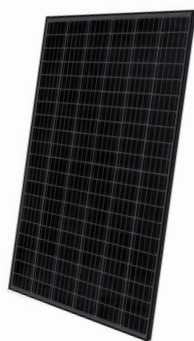
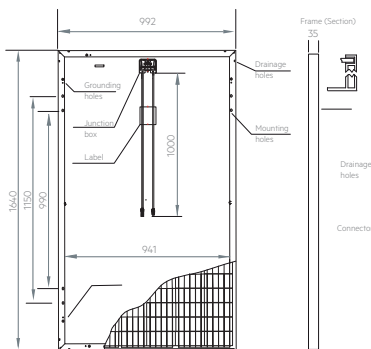
## ELECTRICAL CHARACTERISTICS NOCT<sup>3</sup>

Maximum Power (P <sub>max</sub> )	[W]	237	241
Maximum Power Voltage (V <sub>mp</sub> )	[V]	31.8	32.0
Maximum Power Current (I <sub>mp</sub> )	[A]	7.45	7.53
Open Circuit Voltage (V <sub>oc</sub> )	[V]	38.4	38.6
Short Circuit Current (I <sub>sc</sub> )	[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 <sup>2</sup>
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

## TECHNICAL DRAWINGS



## TEMPERATURE CHARACTERISTICS

NOCT	45°C ± 2°C
P <sub>max</sub> Temp. Coefficient (γ)	-0.365 %/K
V <sub>oc</sub> Temp. Coefficient (β)	-0.275 %/K
I <sub>sc</sub> Temp. Coefficient (α)	0.063%/K
Operating temperature	-40°C to + 85°C

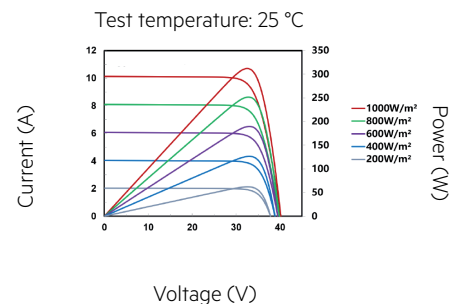
## PACKING CONFIGURATION

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

## WARRANTIES

Product warranty	20 years
Performance warranty	25 years, linear <sup>4</sup>

## 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/m<sup>2</sup>; 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/m<sup>2</sup>; Wind Speed 1m/s; Ambient Temperature 20°C; Power measurement uncertainty within ± 3%.

4- Exclusive for Members of the AEG Certified Installer Program. More info: [www.vdh-solar.nl](http://www.vdh-solar.nl) / [info@vdh-solar.nl](mailto:info@vdh-solar.nl)

5- 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](http://www.aeg-industrialsolar.de)

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