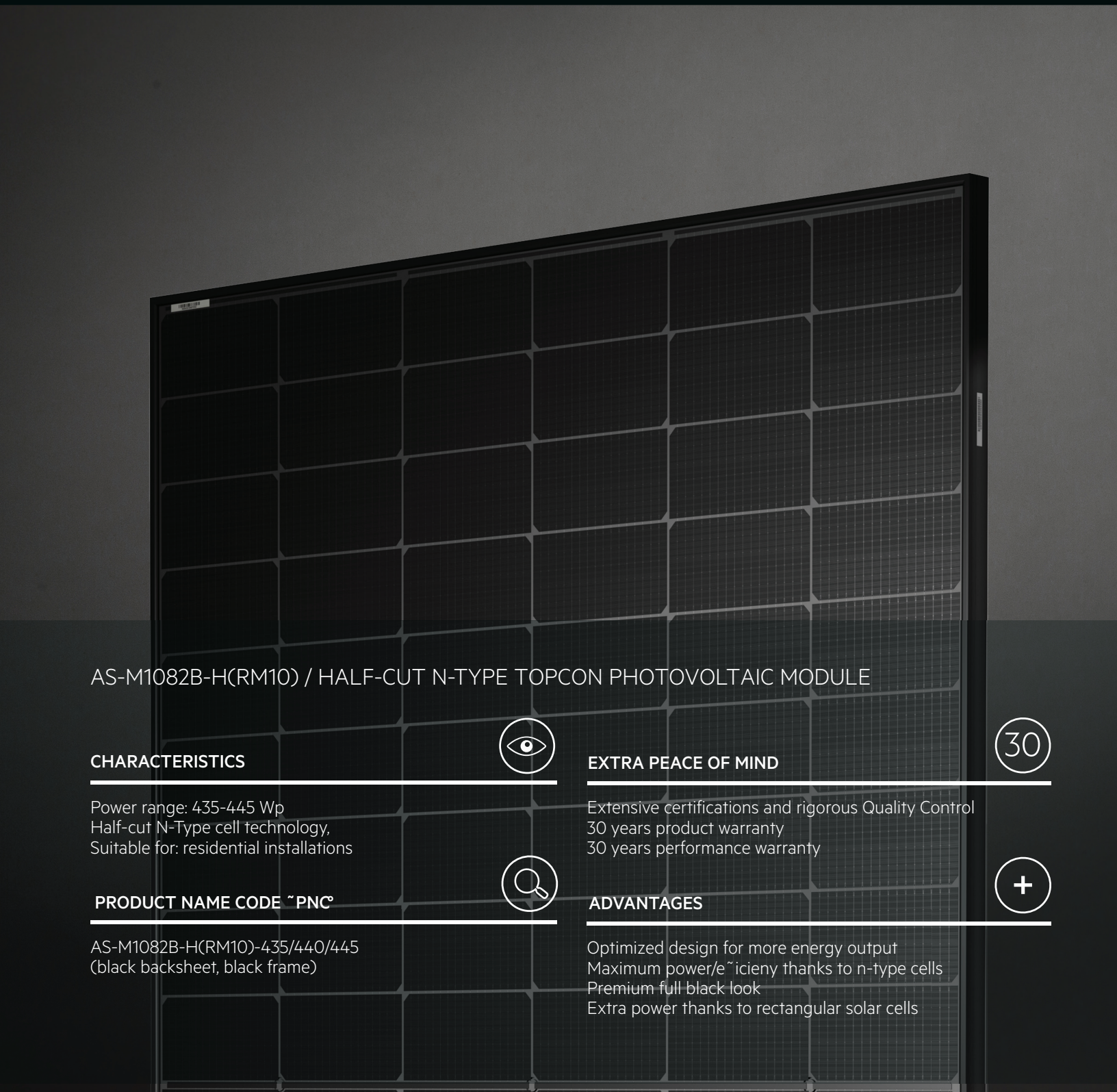
AEG

# AEG HIGH EFFICIENCY SERIES



## AS-M1082B-H(RM10) / HALF-CUT N-TYPE TOPCON PHOTOVOLTAIC MODULE

### CHARACTERISTICS

Power range: 435-445 Wp
Half-cut N-Type cell technology,
Suitable for: residential installations

### PRODUCT NAME CODE ˜PNC°

AS-M1082B-H(RM10)-435/440/445
(black backsheet, black frame)

### EXTRA PEACE OF MIND

Extensive certifications and rigorous Quality Control
30 years product warranty
30 years performance warranty

### ADVANTAGES

Optimized design for more energy output
Maximum power/e˜icieny thanks to n-type cells
Premium full black look
Extra power thanks to rectangular solar cells

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## AS-M1082B-H(RM10) / HALF-CUT N-TYPE TOPCON PHOTOVOLTAIC MODULE

| PRODUCT SERIES & NAMECODE (PNC) |
|---|
| AEG HIGH EFFICIENCY SERIES |
| AS-M1082B-H(RM10)-435/440/445 |
| black frame, black backsheet |

| CERTIFICATIONS | | |
|---|---|---|
| System | ISO 9001, ISO 14001, ISO 45001 | |
| Product | IEC 61215-1:2016, IEC 61215-1-1:2016, IEC 61215-2:2016, IEC 61730-1/-2:2016 EN 61215-1:2016, EN 61215-1-1:2016, EN IEC 61730-1/-2:2018, EN IEC 61730-1/-2:2018/AC:2018-06 | |

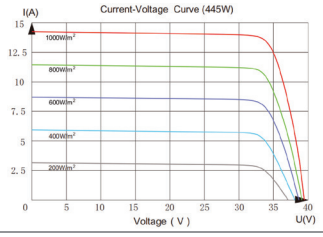
| ELECTRICAL CHARACTERISTICS AT STC[1,2] | | | | |
|---|---|---|---|---|
| Nominal Power (Pmax) | [Wp] | 435 | 440 | 445 |
| Power Sorting[3] | [W] | 0-5 | 0-5 | 0-5 |
| Maximum Power Voltage (Vmp) | [V] | 32.59 | 32.81 | 33.03 |
| Maximum Power Current (Imp) | [A] | 13.35 | 13.42 | 13.48 |
| Open Circuit Voltage (Voc) | [V] | 39.20 | 39.40 | 39.60 |
| Short Circuit Current (Isc) | [A] | 13.78 | 13.84 | 13.90 |
| Module Efficiency (ηm) | [%] | 21.77 | 22.02 | 22.27 |
| Maximum System Voltage | [V] | 1000 | 1000 | 1000 |
| Series Fuse Maximum Rating | [A] | 25 | 25 | 25 |

| WARRANTIES | | |
|---|---|---|
| Product warranty[5] | [years] | 30 |
| Performance warranty (linear)[6] | [years] | 30 |

| TEMPERATURE CHARACTERISTICS | | |
|---|---|---|
| NMOT | [°C] | 45 (±2) |
| Pmax Temp. Coefficient (γ) | [%°C] | -0.31 |
| Voc Temp. Coefficient (β) | [%°C] | -0.25 |
| Isc Temp.Coefficient (α) | [%°C] | 0.06 |
| Operating temperature | [°C] | –40~+85 |

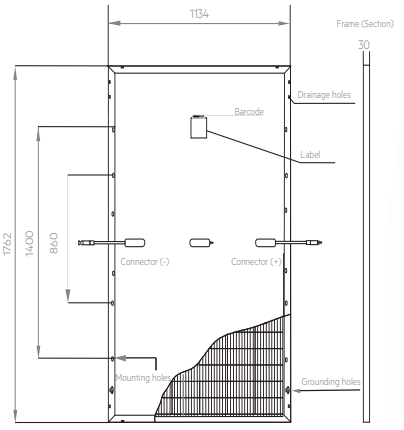
| ELECTRICAL CHARACTERISTICS AT NMOT[4] | | | | |
|---|---|---|---|---|
| Maximum Power (Pmax) | [W] | 327 | 331 | 335 |
| Maximum Power Voltage (Vmp) | [V] | 30.45 | 30.65 | 30.86 |
| Maximum Power Current (Imp) | [A] | 10.78 | 10.84 | 10.89 |
| Open Circuit Voltage (Voc) | [V] | 37.13 | 37.32 | 37.51 |
| Short Circuit Current (Isc) | [A] | 11.15 | 11.20 | 11.25 |

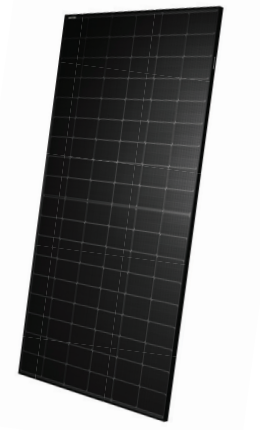
### I/V CURVES - IRRADIANCES




| MECHANICAL CHARACTERISTICS | | |
|---|---|---|
| Solar cells | monocrystalline [pcs] | 108 |
| | Dimensions [mm] | RM10 Half-cut [182 x 199] |
| Front glass | high-transparency | |
| | Thickness [mm] / [in] | 3.2 / 0.125 |
| Backsheet | Black | |
| Encapsulant | EVA | |
| Frame | Anodized aluminum alloy | Black |
| Junction box | Split-type, IP68 | |
| | Bypass diodes | 3 |
| UV-resistant cables | Length [mm] / [in] | 1100 / 43.30 |
| | Section [mm²] | 4 |
| Connectors | MC4 Original | |
| Dimensions | H x L x W [mm] | 1762 x 1134 x 30 |
| | H x L x W [in] | 69.37 x 44.64 x 1.18 |
| Weight | [kg] / [lbs] | 20.6 / 45.40 |
| Maximum load | Wind / Snow [Pa] | 2400 / 5400 |
| Fire Class | Class C | |

### TECHNICAL DRAWINGS



| PACKAGING | | |
|---|---|---|
| Packing configuration | [pcs/pallet] | 36 |
| Loading capacity | [pcs/40 ft container] | 936 |

### NOTES

1-Standard Test Conditions (STC): Irradiance 1000 W/m², Air Mass AM = 1.5, Cell Temperature 25°C)

2-Measurement tolerances (IEC 61215:2016): Pmax±3%, Voc±3%, Isc±4%

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

4-NMOT: Nominal operating temperature of module, Irradiance 800 W/m², Wind Speed 1m/s; Ambient Temperature 20°C, Air Mass AM=1.5

5-Full text of the Warranty Terms available at: www.aeg-solar.com

6-(HE/GB) No less than 99% of the minimum "Peak Power at STC"in the first year; power output decline no more than 0.4% per year thereafter, ending with 87.4%.

Dimensions in the technical picture are expressed in mm with tolerance ±2 mm (±0.079 ") / Version 2023.11.02.EN 



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VDH SOLAR

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