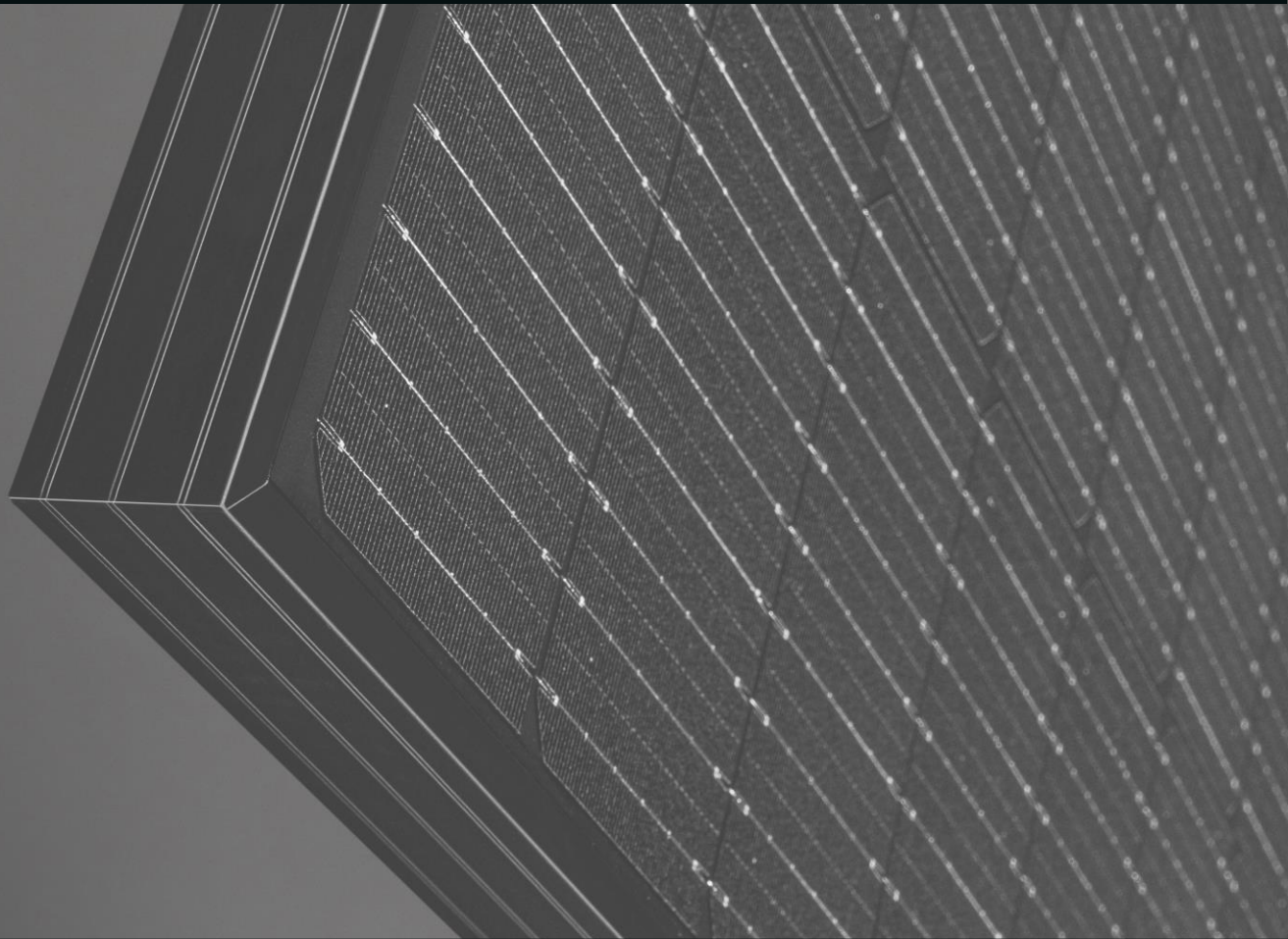




AEG HIGH EFFICIENCY SERIES



AS-M1082B-H(M10) / HALF-CUT CELLS PHOTOVOLTAIC MODULE

CHARACTERISTICS



Power range: 400-410 Wp
Half-Cut-cell technology
Suitable for: residential / commercial installations

PRODUCT NAME CODE (PNC)



AS-M1082B-H(M10)-400/405/410
(black backsheets, black frame)

EXTRA PEACE OF MIND



Extensive certifications and rigorous Quality Control
15 years product warranty
25 years performance warranty

ADVANTAGES



Half-cut cell technology for maximum efficiency
Outstanding full black optics
Extra long cables for greater installation flexibility

AS-M1082B-H(M10) / HALF-CUT CELLS PHOTOVOLTAIC MODULE

PRODUCT SERIES & NAMECODE (PNC)	
AEG HIGH EFFICIENCY SERIES	
AS-M1082B-H(M10)-400/405/410	
black frame, black backsheet	

ELECTRICAL CHARACTERISTICS AT STC ^{1,2}				
Nominal Power (Pmax)	[Wp]	400	405	410
Power Sorting ³	[W]	0-5	0-5	0-5
Maximum Power Voltage (Vmp)	[V]	30.73	30.91	31.09
Maximum Power Current (Imp)	[A]	13.03	13.11	13.20
Open Circuit Voltage (Voc)	[V]	37.09	37.21	37.33
Short Circuit Current (Isc)	[A]	13.90	13.98	14.06
Module Efficiency (ηm)	[%]	20.65	20.91	21.17
Maximum System Voltage	[V]	1000	1000	1000
Series Fuse Maximum Rating	[A]	25	25	25

ELECTRICAL CHARACTERISTICS AT NMOT ⁴				
Maximum Power (Pmax)	[W]	303	307	311
Maximum Power Voltage (Vmp)	[V]	29.38	29.55	29.72
Maximum Power Current (Imp)	[A]	10.32	10.4	10.47
Open Circuit Voltage (Voc)	[V]	35.23	35.34	35.46
Short Circuit Current (Isc)	[A]	11.15	11.21	11.28

MECHANICAL CHARACTERISTICS		
Solar cells	monocrystalline [pcs]	108
	Dimensions [mm]	M10 Half-cut [182 x 91]
Front glass	high-transparency	
	Thickness [mm] / [in]	2.8 / 0.11
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 [mm ²]	4
Connectors	MC4	
Dimensions	H x L x W [mm]	1708 x 1134 x 30
	H x L x W [in]	67.24 x 44.64 x 1.18
Weight	[kg] / [lbs]	19.5 / 43
Maximum load	Wind / Snow [Pa]	2400 / 5400
Fire Class	Class C	

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

NOTES	
1-Standard Test Conditions (STC): Irradiance 1000 W/m ² , 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/m ² , Wind Speed 1m/s, Ambient Temperature 20°C, Air Mass AM=1.5	
5-Full text of the Warranty Terms available at: www.aeg-industrialsolar.de . If not offered by your distributor, the standard warranty conditions apply.	
6-(H/E/GB) No less than 98% of the minimum "Peak Power at STC" in the first year, power output decline no more than 0.55% per year thereafter, ending with 84.8%.	
Dimensions in the technical picture are expressed in mm with tolerance ±2 mm (±0.079") / Version 2022.11.01.EN © Solar Solutions GmbH. Specifications in this datasheet are subject to change without notice.	
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CERTIFICATIONS	
System	ISO 9001, ISO 14001, ISO 45001
Product	IEC 61215-1:2016, IEC 61215-2:2016, IEC 61215-2:2016, IEC 61730-1:2016, EN 61215-1:2016, EN 61215-2:2016, EN IEC 61730-1:2018, EN IEC 61730-1:2018/AC:201806

WARRANTIES		
Product warranty ⁵	[years]	15 (opt. ext. to 20)
Performance warranty (linear) ⁶	[years]	25

TEMPERATURE CHARACTERISTICS		
NMOT	[°C]	42 (±3)
Pmax Temp. Coefficient (γ)	[%/°C]	-0.330
Voc Temp. Coefficient (β)	[%/°C]	-0.246
Isc Temp. Coefficient (α)	[%/°C]	0.0448
Operating temperature	[°C]	-40~+85

