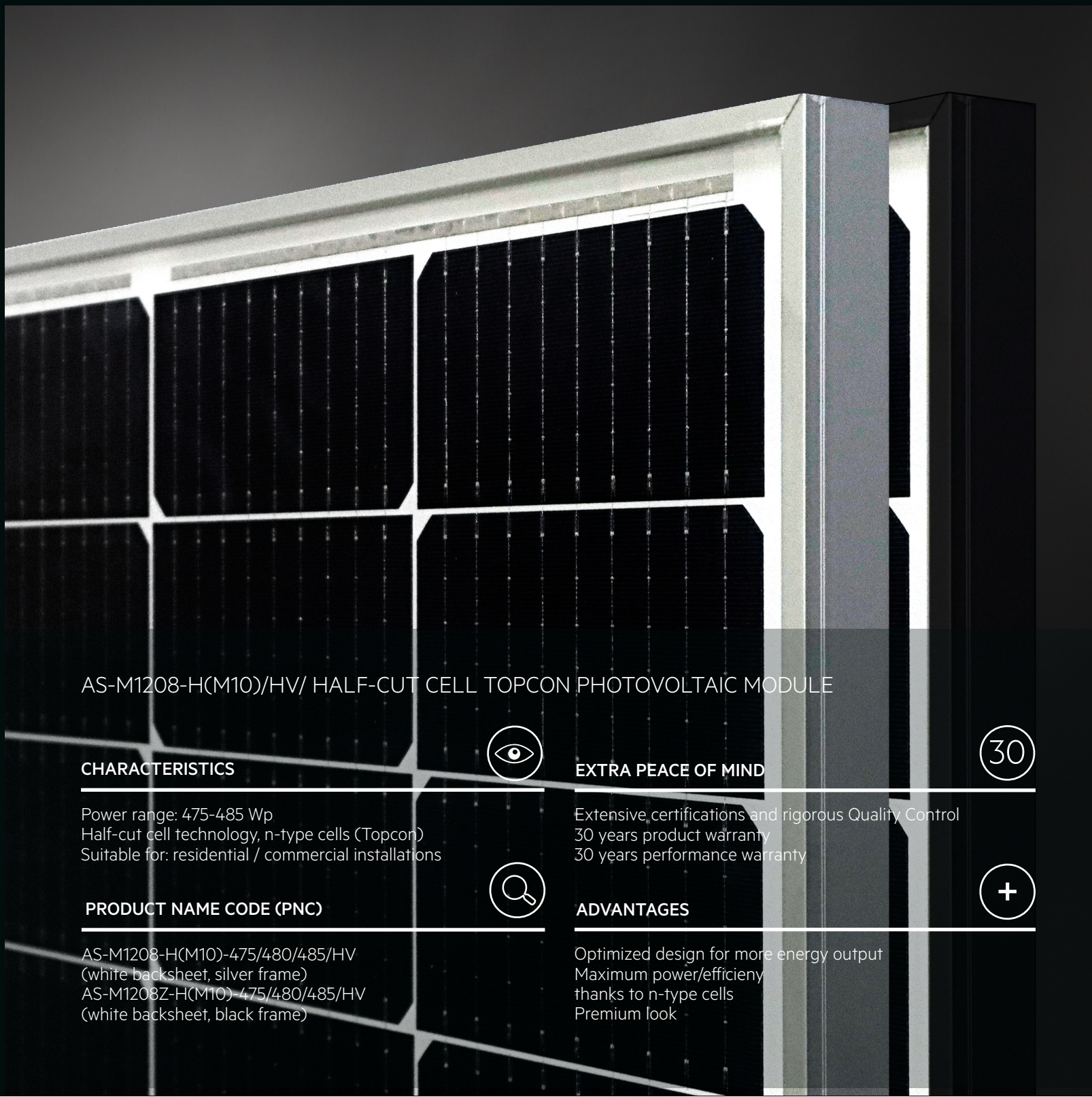
AEG

AEG HIGH EFFICIENCY SERIES



AS-M1208-H(M10)/HV/ HALF-CUT CELL TOPCON PHOTOVOLTAIC MODULE

CHARACTERISTICS

Power range: 475-485 Wp
Half-cut cell technology, n-type cells (Topcon)
Suitable for: residential / commercial installations

PRODUCT NAME CODE (PNC)

AS-M1208-H(M10)-475/480/485/HV
(white backsheet, silver frame)
AS-M1208Z-H(M10)-475/480/485/HV
(white backsheet, black frame)

EXTRA PEACE OF MIND

30

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

ADVANTAGES

Optimized design for more energy output
Maximum power/efficieny
thanks to n-type cells
Premium look

AS-M1208-H(M10)/HV/ HALF-CUT CELL TOPCON PHOTOVOLTAIC MODULE

PRODUCT SERIES & NAMECODE (PNC)
AEG HIGH EFFICIENCY SERIES
AS-M1208-H(M10)-475/480/485/HV, silver frame, white backsheet
AS-M1208Z-H(M10)-475/480/485/HV, black frame, white backsheet

ELECTRICAL CHARACTERISTICS AT STC[1,2]				
Nominal Power (Pmax)	[Wp]	475	480	485
Power Sorting[3]	[W]	0-5	0-5	0-5
Maximum Power Voltage (Vmp)	[V]	36.2	36.4	36,6
Maximum Power Current (Imp)	[A]	13.12	13.19	13,25
Open Circuit Voltage (Voc)	[V]	42.6	42.8	43
Short Circuit Current (Isc)	[A]	13.96	14.02	14,08
Module Efficiency (ηm)	[%]	22.01	22.24	22,47
Maximum System Voltage	[V]	1500	1500	1500
Series Fuse Maximum Rating	[A]	25	25	25

ELECTRICAL CHARACTERISTICS AT NOCT[4]				
Maximum Power (Pmax)	[W]	357	361	365
Maximum Power Voltage (Vmp)	[V]	34.4	34.6	34,8
Maximum Power Current (Imp)	[A]	10.39	10.44	10,49
Open Circuit Voltage (Voc)	[V]	40.5	40.7	40,9
Short Circuit Current (Isc)	[A]	11.27	11.32	11,37

MECHANICAL CHARACTERISTICS		
Solar cells	monocrystalline [pcs]	120
	Dimensions [mm]	M10 Half-cut [182 x 91]
Front glass	high-transparency	
	Thickness [mm] / [in]	3.2 / 0.126
Backsheet	White	
Encapsulant	EVA	
Frame	Anodized aluminum alloy	Silver or Black
Junction box	Split-type, IP68	
	Bypass diodes	3
UV-resistant cables	Length [mm] / [in]	1300 / 51.18
	Section [mm^2]	4
Connectors	MC4 Compatible	
Dimensions	H x L x W [mm]	1903 x 1134 x 35
	H x L x W [in]	74.92 x 44.65 x 1.38
Weight	[kg] / [lbs]	23.8 / 52.46
Maximum load	Wind / Snow [Pa]	2400 / 5400
Fire Class	Class A	

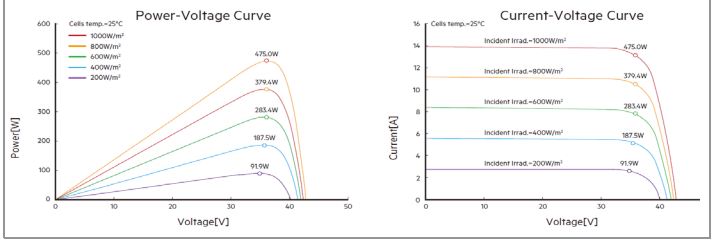
PACKAGING		
Packing configuration	[pcs/pallet]	31
Loading capacity	[pcs/40 ft container]	744

CERTIFICATIONS		
System	ISO 9001, ISO 14001, ISO 45001	
Product	IEC 61215, IEC 61730	

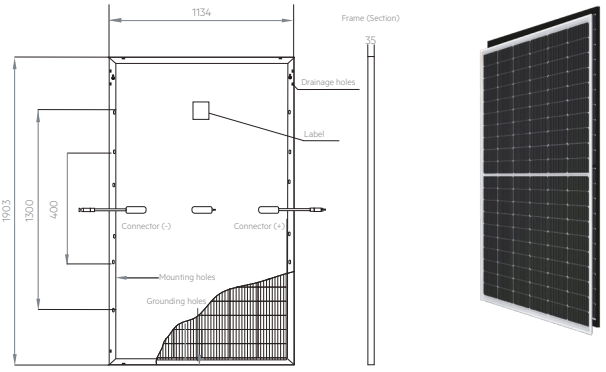
WARRANTIES		
Product warranty[5]	[years]	30
Performance warranty (linear)[6]	[years]	30

TEMPERATURE CHARACTERISTICS		
NOCT	[°C]	45 (±2)
Pmax Temp. Coefficient (γ)	[%°C]	-0.30
Voc Temp. Coefficient (β)	[%°C]	-0.25
Isc Temp.Coefficient (α)	[%°C]	0,046
Operating temperature	[°C]	–40~+85

I/V CURVES - IRRADIANCES



TECHNICAL DRAWINGS



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±3%

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-NOCT: Nominal operating cell temperature, 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 2023.10.V2.EN_ext25 © Solar Solutions Group. Specifications in this datasheet are subject to change without notice.

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