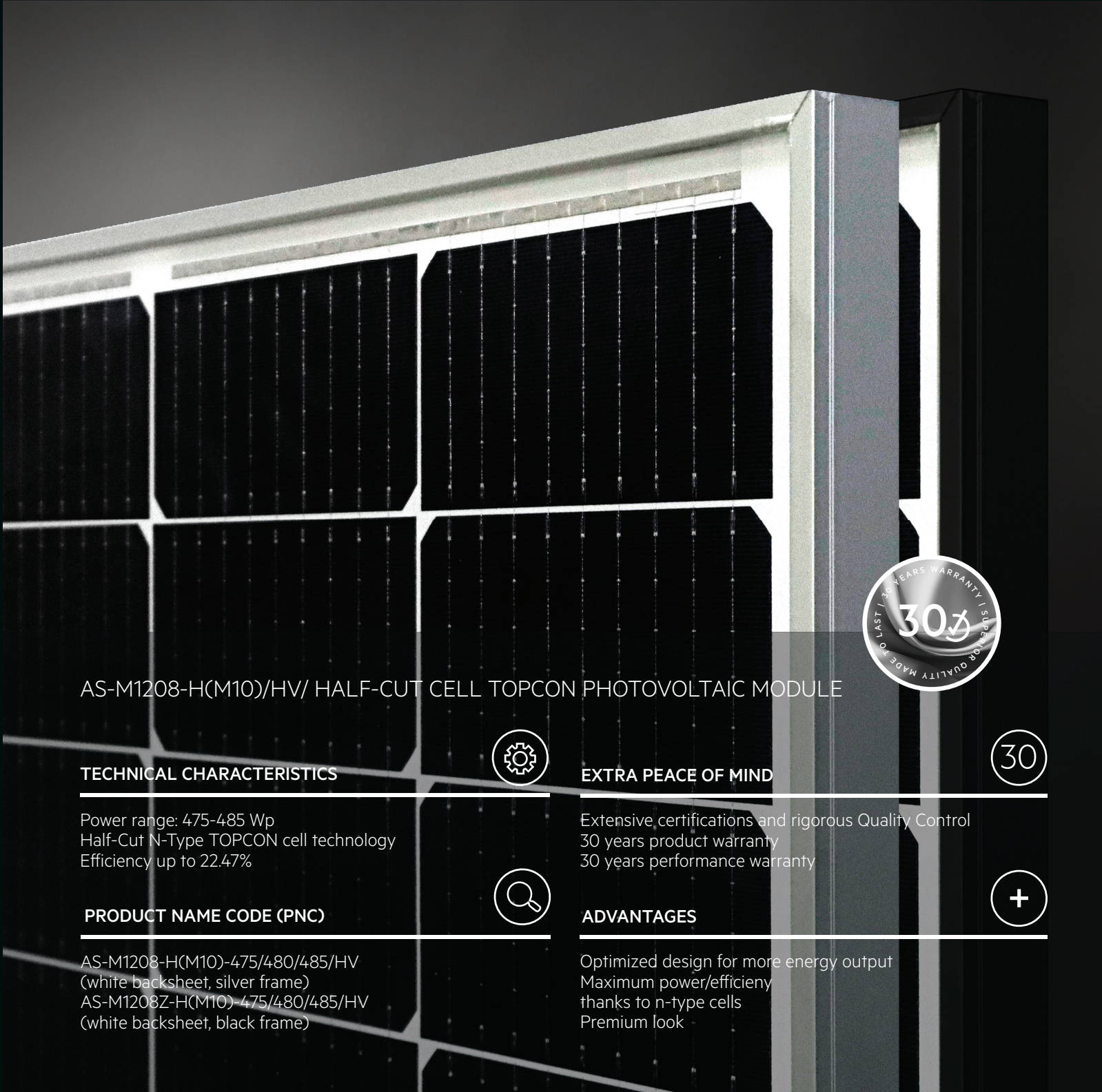




AEG HIGH EFFICIENCY SERIES



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

TECHNICAL CHARACTERISTICS



Power range: 475-485 Wp
Half-Cut N-Type TOPCON cell technology
Efficiency up to 22.47%

EXTRA PEACE OF MIND



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

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)

ADVANTAGES



Optimized design for more energy output
Maximum power/efficiency 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	

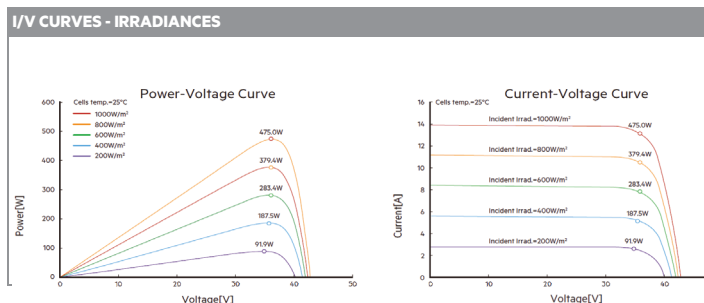
CERTIFICATIONS	
System	ISO 9001, ISO 14001, ISO 45001
Product	IEC 61215, IEC 61730

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

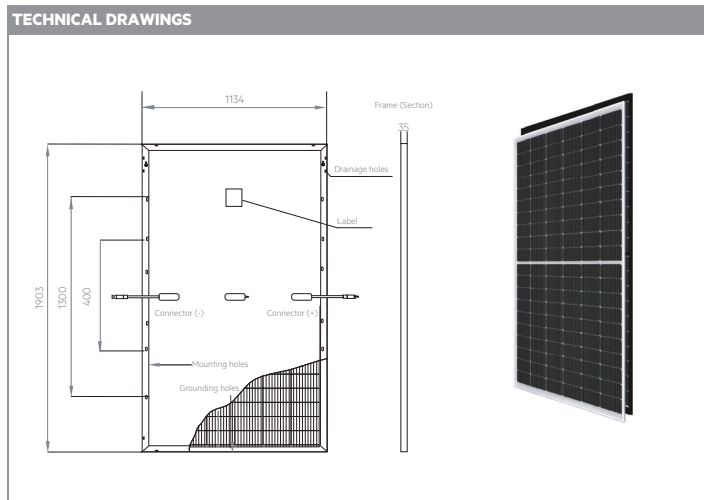
WARRANTIES		
Product warranty ⁵	[years]	30
Performance warranty (linear) ⁶	[years]	30

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

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]	1200 / 47.24
	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 C	



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

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±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/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-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 2024.01.V1.EN © Solar Solutions Group. Specifications in this datasheet are subject to change without notice.
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