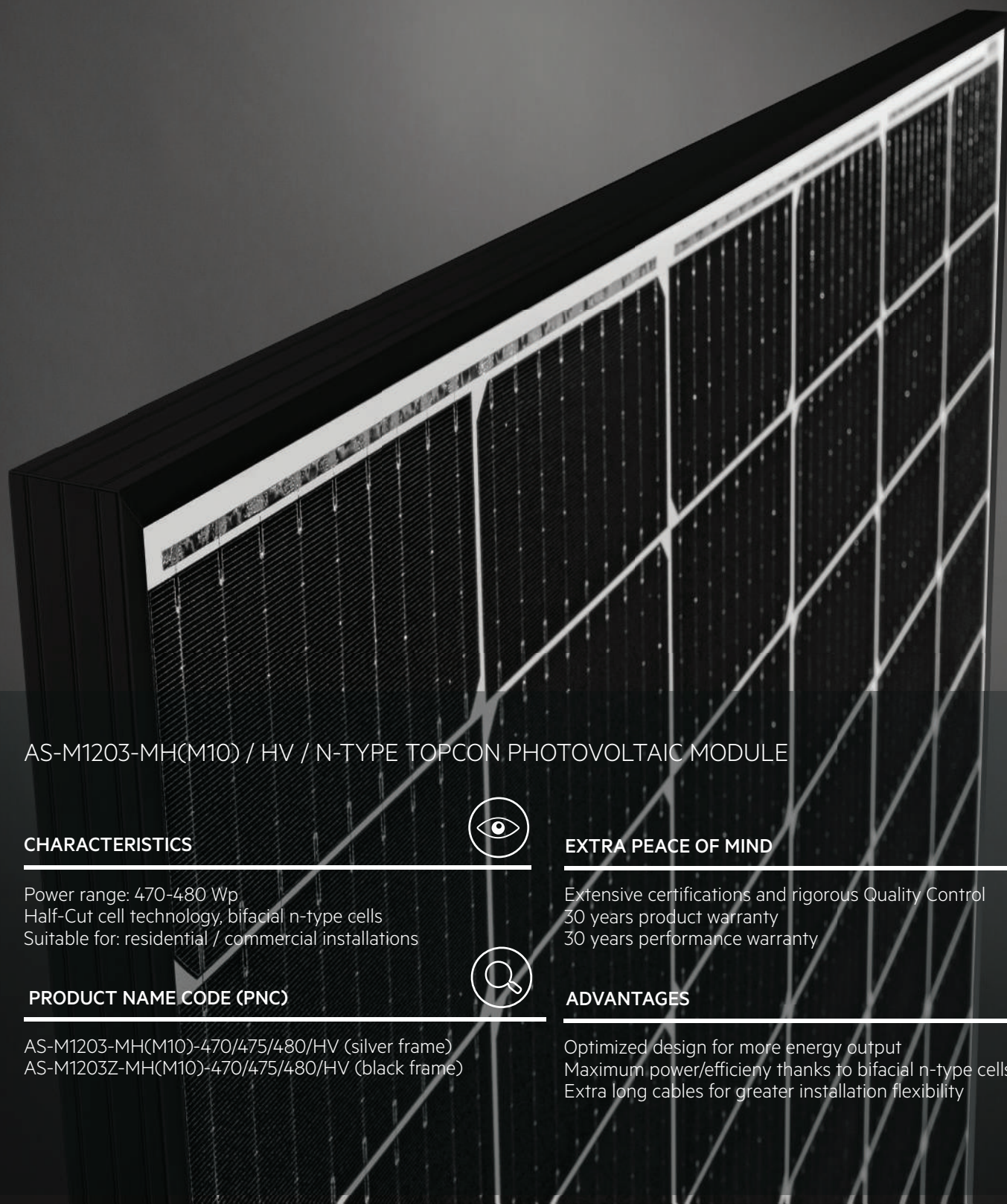




AEG HIGH EFFICIENCY SERIES



AS-M1203-MH(M10) / HV / N-TYPE TOPCON PHOTOVOLTAIC MODULE

CHARACTERISTICS

Power range: 470-480 Wp
Half-Cut cell technology, bifacial n-type cells
Suitable for: residential / commercial installations



EXTRA PEACE OF MIND

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



PRODUCT NAME CODE (PNC)

AS-M1203-MH(M10)-470/475/480/HV (silver frame)
AS-M1203Z-MH(M10)-470/475/480/HV (black frame)



ADVANTAGES

Optimized design for more energy output
Maximum power/efficiency thanks to bifacial n-type cells
Extra long cables for greater installation flexibility



AS-M1203-MH(M10) / HV / N-TYPE TOPCON PHOTOVOLTAIC MODULE

PRODUCT SERIES & NAMECODE (PNC)			
AEG HIGH EFFICIENCY SERIES			
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AS-M1203Z-MH(M10)-470/475/480/HV (black frame)			

ELECTRICAL CHARACTERISTICS AT STC ^{1,2}				
Nominal Power (Pmax)	[Wp]	470	475	480
Power Sorting ³	[W]	0-5	0-5	0-5
Maximum Power Voltage (Vmp)	[V]	36.27	36.39	36.52
Maximum Power Current (Imp)	[A]	13.05	13.14	13.23
Open Circuit Voltage (Voc)	[V]	43.31	43.46	43.61
Short Circuit Current (Isc)	[A]	13.80	13.91	14.02
Module Efficiency (ηm)	[%]	22.0	22.2	22.4
Maximum System Voltage	[V]	1500	1500	1500
Series Fuse Maximum Rating	[A]	25	25	25

ELECTRICAL CHARACTERISTICS AT NMOT ⁴			
Maximum Power (Pmax)	[W]	357.2	361.0
Maximum Power Voltage (Vmp)	[V]	34.26	34.37
Maximum Power Current (Imp)	[A]	10.43	10.50
Open Circuit Voltage (Voc)	[V]	41.14	41.28
Short Circuit Current (Isc)	[A]	11.14	11.23

MECHANICAL CHARACTERISTICS		
Solar cells	monocrystalline [pcs]	120
	Dimensions [mm]	M10 Half-cut [182 x 91]
Front glass	high-transparency	
	Thickness [mm] / [in]	1.6 / 0.06
Back glass	White	1.6 / 0.06
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 original	
Dimensions	H x L x W [mm]	1908 x 1134 x 30
	H x L x W [in]	75.12 x 44.65 x 1.18
Weight	[kg] / [lbs]	23 / 50.71
Maximum load	Wind / Snow [Pa]	2400 / 5400
Fire Class	Class A	

PACKAGING		
Packing configuration	[pcs/pallet]	36
Loading capacity	[pcs/40 ft container]	864

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±5%
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-solar.com
6-(HE/GG) 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 87.40%.
Dimensions in the technical picture are expressed in mm with tolerance ±2 mm (±0.079 ") / Version 2023.05.V1.EN © Solar Solutions Group. Specifications in this datasheet are subject to change without notice.
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CERTIFICATIONS		
System	ISO 9001, ISO 14001, ISO 45001	
Product	IEC61215-1:2016, IEC61215-2:2016, IEC61730-1:2016, IEC61730-2:2016, EN61215-1:2016, EN61215-2:2016, EN IEC61730-1:2018, EN IEC61730-2:2018	

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

TEMPERATURE CHARACTERISTICS		
NMOT	[°C]	41 (±2)
Pmax Temp. Coefficient (γ)	[%/°C]	-0.29
Voc Temp. Coefficient (β)	[%/°C]	-0.25
Isc Temp. Coefficient (α)	[%/°C]	0.043
Operating temperature	[°C]	-40~+85

