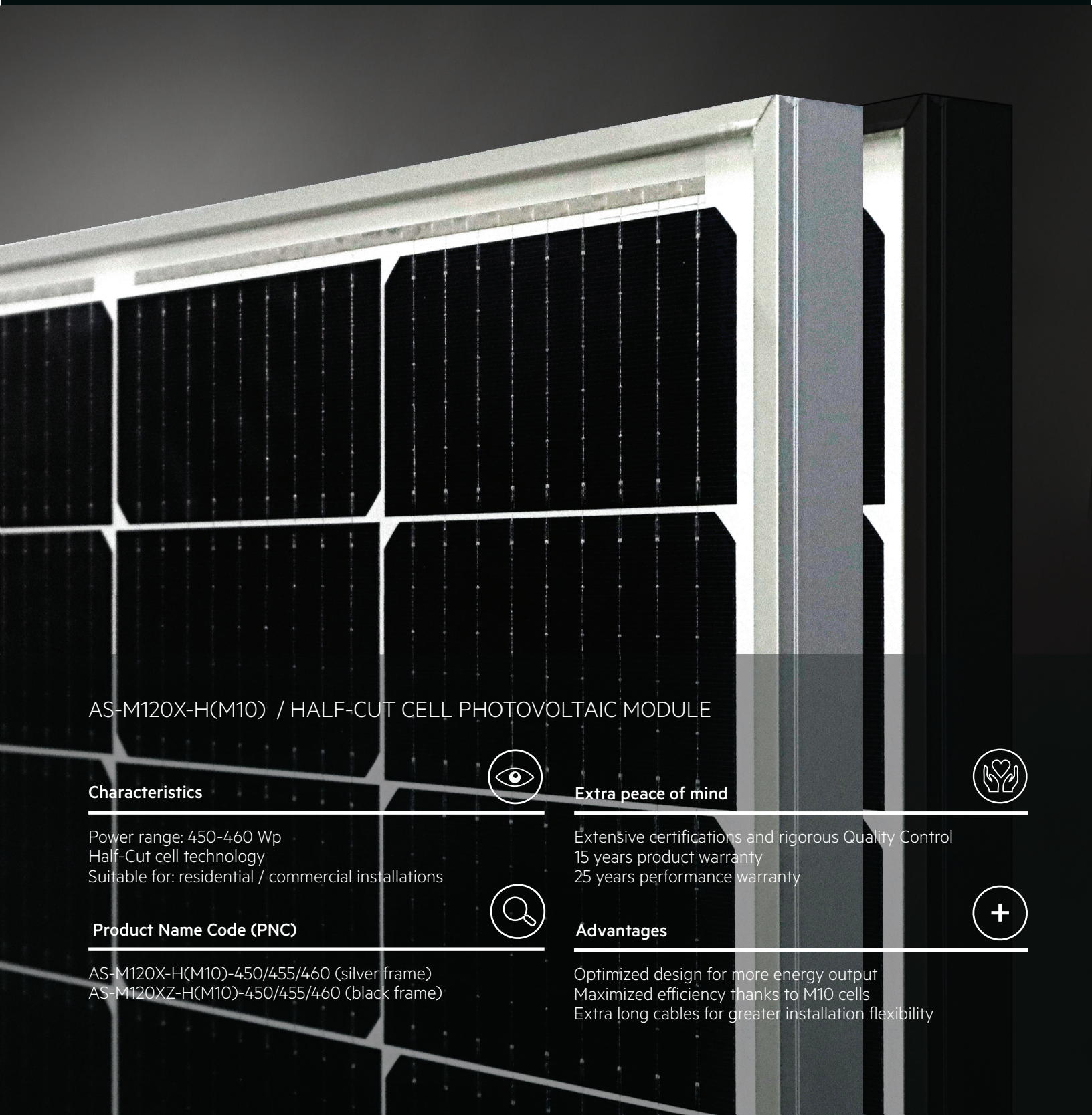
AEG

AEG HIGH EFFICIENCY SERIES



AS-M120X-H(M10) / HALF-CUT CELL PHOTOVOLTAIC MODULE

Characteristics

Power range: 450-460 Wp
Half-Cut cell technology
Suitable for: residential / commercial installations

Product Name Code (PNC)

AS-M120X-H(M10)-450/455/460 (silver frame)
AS-M120XZ-H(M10)-450/455/460 (black frame)

Extra peace of mind

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

Advantages

Optimized design for more energy output
Maximized efficiency thanks to M10 cells
Extra long cables for greater installation flexibility

AS-M120X-H(M10) / HALF-CUT CELL PHOTOVOLTAIC MODULE

PRODUCT SERIES & NAMECODE (PNC)
AEG HIGH EFFICIENCY SERIES
AS-M120X-H(M10)-450/455/460/HV, silver frame
AS-M120XZ-H(M10)-450/455/460/HV, black frame

CERTIFICATIONS		
System	ISO 9001, ISO 14001, ISO 45001	
Product	IEC61215 , IEC61730	

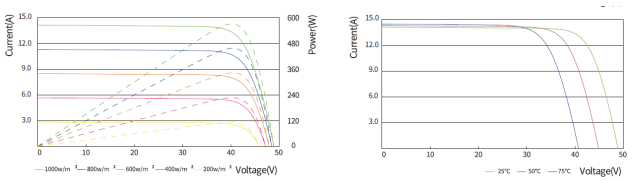
ELECTRICAL CHARACTERISTICS AT STC[1,2]				
Nominal Power (Pmax)	[Wp]	450	455	460
Power Sorting[3]	[W]	0-5	0-5	0-5
Maximum Power Voltage (Vmp)	[V]	33.91	34.06	34.20
Maximum Power Current (Imp)	[A]	13.27	13.36	13.45
Open Circuit Voltage (Voc)	[V]	41.18	41.33	41.48
Short Circuit Current (Isc)	[A]	13.85	13.93	14.01
Module Efficiency (ηm)	[%]	20.85	21.08	21.32
Maximum System Voltage	[V]	1500	1500	1500
Series Fuse Maximum Rating	[A]	25	25	25

WARRANTIES		
Product warranty[5]	[years]	15
Performance warranty (linear)[6]	[years]	25

TEMPERATURE CHARACTERISTICS		
NMOT	[°C]	41 (±2)
Pmax Temp. Coefficient (γ)	[%°C]	-0.35
Voc Temp. Coefficient (β)	[%°C]	-0.28
Isc Temp.Coefficient (α)	[%°C]	0.048
Operating temperature	[°C]	–40~+85

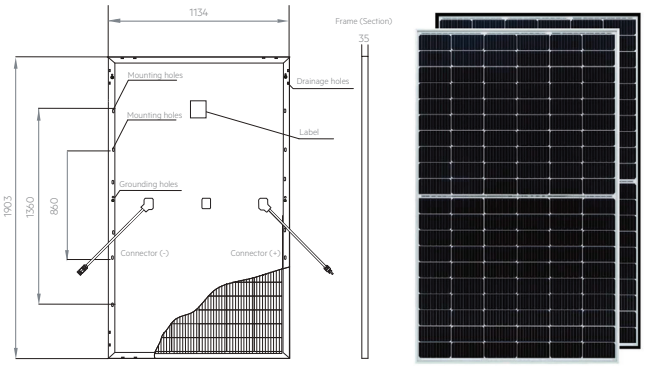
ELECTRICAL CHARACTERISTICS AT NMOT[4]				
Maximum Power (Pmax)	[W]	335	339	342
Maximum Power Voltage (Vmp)	[V]	31.73	31.91	32.07
Maximum Power Current (Imp)	[A]	10.55	10.61	10.67
Open Circuit Voltage (Voc)	[V]	38.87	39.01	39.15
Short Circuit Current (Isc)	[A]	11.19	11.25	11.32

I/V CURVES - IRRADIANCES



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	IP68	
	Bypass diodes	3
UV-resistant cables	Length [mm] / [in]	300 / 11.81
	Section [mm²]	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]	24,2
Maximum load	Wind / Snow [Pa]	2400 / 5400
Fire Class	Class C	

TECHNICAL DRAWINGS



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

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-industrialsolar.de. If not offered by your distributor, the standard warranty conditions apply.

6-(HE/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 2022.06.01.EN

CONTACT US

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