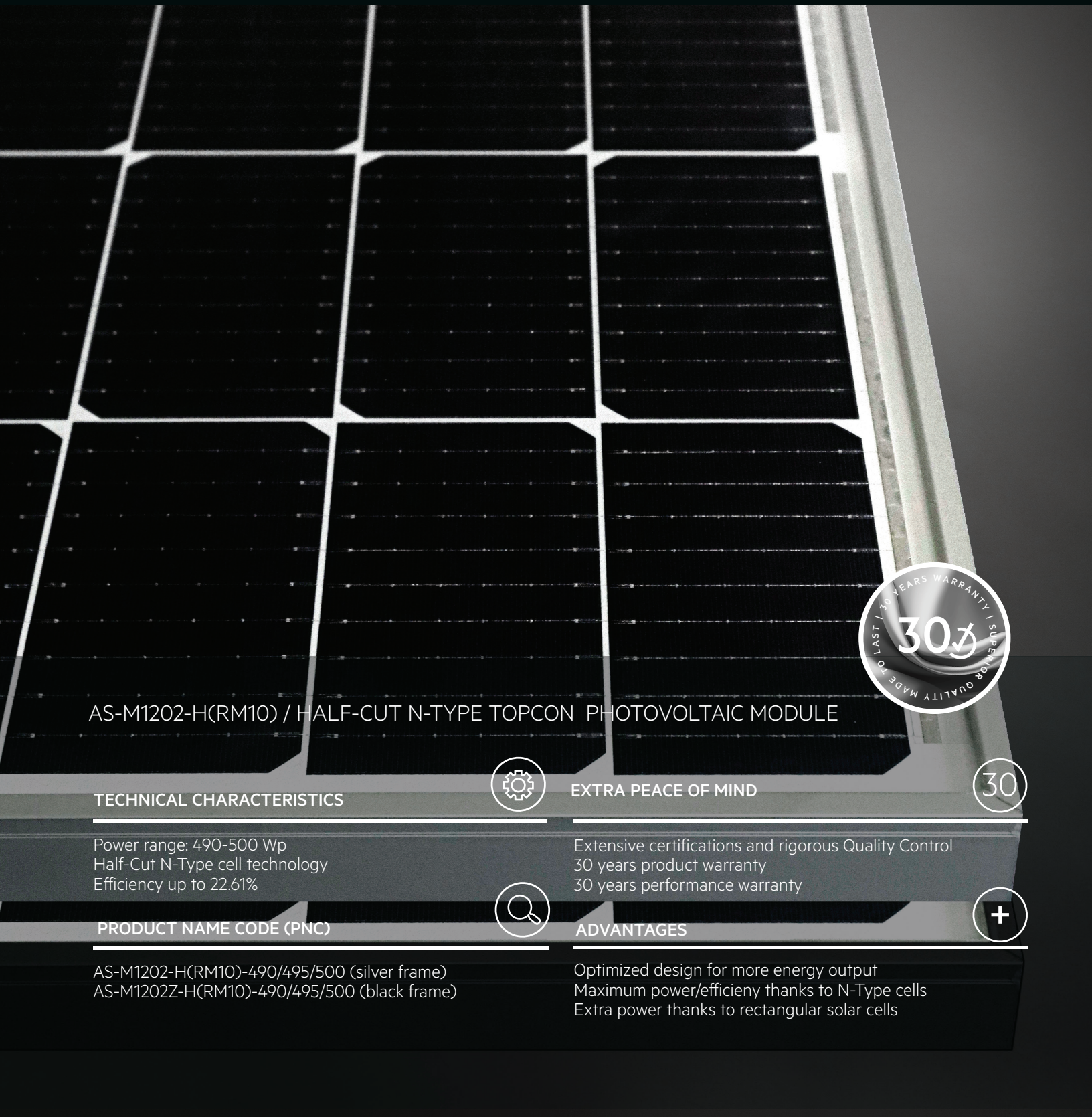
AEG

LA SOCIÉTÉ FRANÇAISE DE L'ÉNERGIE VERTE
SFEV
CONSTRUIRE UN AVENIR DURABLE

AEG HIGH EFFICIENCY SERIES



AS-M1202-H(RM10) / HALF-CUT N-TYPE TOPCON PHOTOVOLTAIC MODULE

TECHNICAL CHARACTERISTICS

Power range: 490-500 Wp
Half-Cut N-Type cell technology
Efficiency up to 22.61%

EXTRA PEACE OF MIND

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

PRODUCT NAME CODE (PNC)

AS-M1202-H(RM10)-490/495/500 (silver frame)
AS-M1202Z-H(RM10)-490/495/500 (black frame)

ADVANTAGES

Optimized design for more energy output
Maximum power/efficieny thanks to N-Type cells
Extra power thanks to rectangular solar cells

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AS-M1202-H(RM10) / HALF-CUT N-TYPE TOPCON PHOTOVOLTAIC MODULE

PRODUCT SERIES & NAMECODE (PNC)
AEG HIGH EFFICIENCY SERIES
AS-M1202-H(RM10)-490/495/500, silver frame, white backsheet
AS-M1202Z-H(RM10)-490/495/500, black frame, white backsheet

CERTIFICATIONS		
System	ISO 9001, ISO 14001, ISO 45001	
Product	IEC 61215-1:2016, IEC 61215-1-1:2016, IEC 61215-2:2016, IEC 61730-1/-2:2016 EN 61215-1:2016, EN 61215-1-1:2016, EN IEC 61730-1/-2:2018, EN IEC 61730-1/-2:2018/AC:2018-06	

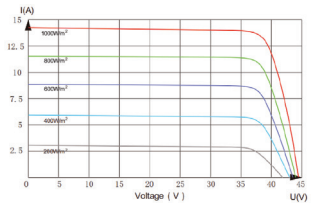
ELECTRICAL CHARACTERISTICS AT STC[1,2]				
Nominal Power (Pmax)	[Wp]	490	495	500
Power Sorting[3]	[W]	0-5	0-5	0-5
Maximum Power Voltage (Vmp)	[V]	36.50	36.71	36.92
Maximum Power Current (Imp)	[A]	13.44	13.50	13.56
Open Circuit Voltage (Voc)	[V]	44.05	44.25	44.45
Short Circuit Current (Isc)	[A]	13.92	13.98	14.04
Module Efficiency (ηm)	[%]	22.16	22.39	22.61
Maximum System Voltage	[V]	1000	1000	1000
Series Fuse Maximum Rating	[A]	25	25	25

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

TEMPERATURE CHARACTERISTICS		
NMOT	[°C]	45 (±2)
Pmax Temp. Coefficient (γ)	[%°C]	-0.31
Voc Temp. Coefficient (β)	[%°C]	-0.25
Isc Temp.Coefficient (α)	[%°C]	+0.06
Operating temperature	[°C]	–40~+85

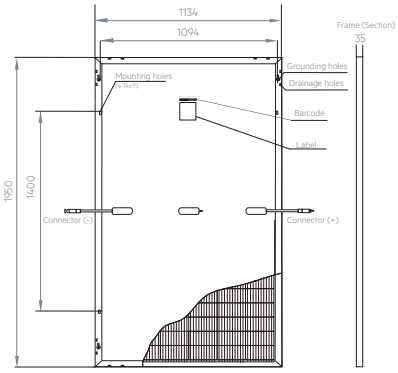
ELECTRICAL CHARACTERISTICS AT NMOT[4]				
Maximum Power (Pmax)	[W]	369	373	376
Maximum Power Voltage (Vmp)	[V]	34.10	34.30	34.49
Maximum Power Current (Imp)	[A]	10.86	10.91	10.95
Open Circuit Voltage (Voc)	[V]	41.73	41.91	42.10
Short Circuit Current (Isc)	[A]	11.27	11.31	11.36

I/V CURVES - IRRADIANCES



MECHANICAL CHARACTERISTICS		
Solar cells	monocrystalline [pcs]	120
	Dimensions [mm]	RM10 Half-cut [182 x 199]
Front glass	high-transparency	
	Thickness [mm] / [in]	3.2 / 0.125
Backsheet	Black	
Encapsulant	EVA	
Frame	Anodized aluminum alloy	Black
Junction box	Split-type, IP68	
	Bypass diodes	3
UV-resistant cables	Length [mm] / [in]	1300 / 51.18
	Section [mm²]	4
Connectors	MC4 Original	
Dimensions	H x L x W [mm]	1950 x 1134 x 35
	H x L x W [in]	76.77 x 44.64 x 1.38
Weight	[kg] / [lbs]	23.1 / 50.91
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]	682

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-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 2024.01.01.EN © Solar Solutions Group. Specifications in this datasheet are subject to change without notice.

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CONTACT

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SFEV - SOCIÉTÉ FRANCAISE DE L'ÉNERGIE VERTE
+ 33 6 33 30 09 95
info@sfev.fr
2 Rue du Moulin de Saconay - Saint-Agnan
02330 VALLÉES-EN-CHAMPAGNE - FRANCE