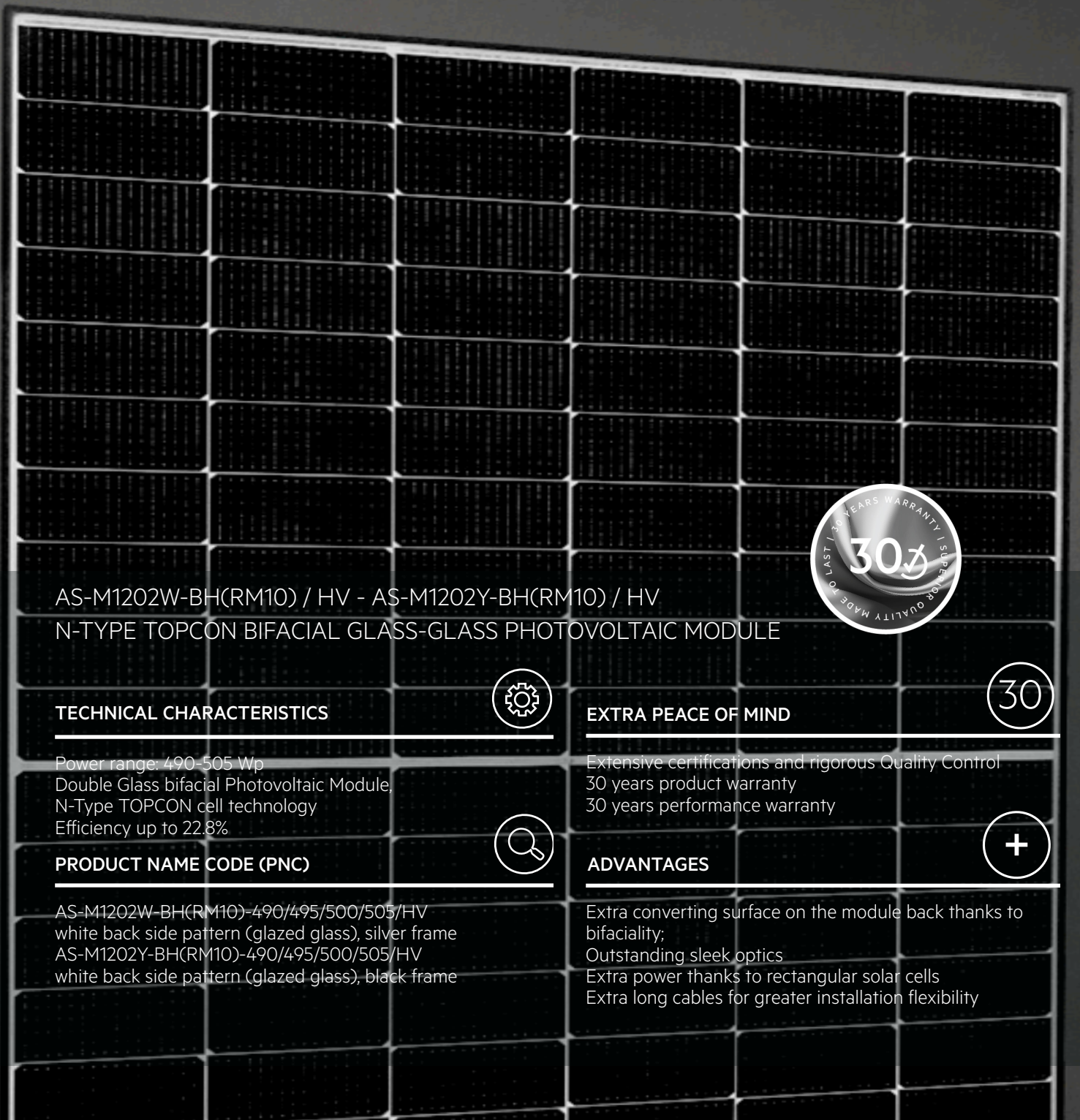


AEG

AEG HIGH EFFICIENCY SERIES



AS-M1202W-BH(RM10) / HV - AS-M1202Y-BH(RM10) / HV
N-TYPE TOPCON BIFACIAL GLASS-GLASS PHOTOVOLTAIC MODULE

TECHNICAL CHARACTERISTICS



Power range: 490-505 Wp
Double Glass bifacial Photovoltaic Module
N-Type TOPCON cell technology
Efficiency up to 22.8%

PRODUCT NAME CODE (PNC)

AS-M1202W-BH(RM10)-490/495/500/505/HV
white back side pattern (glazed glass), silver frame
AS-M1202Y-BH(RM10)-490/495/500/505/HV
white back side pattern (glazed glass), black frame

EXTRA PEACE OF MIND



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

ADVANTAGES



Extra converting surface on the module back thanks to bifaciality;
Outstanding sleek optics
Extra power thanks to rectangular solar cells
Extra long cables for greater installation flexibility



AS-M1202W-BH(RM10) / HV - AS-M1202Y-BH(RM10) / HV N-TYPE TOPCON BIFACIAL GLASS-GLASS PHOTOVOLTAIC MODULE

PRODUCT SERIES & NAMECODE (PNC)	
AEG HIGH EFFICIENCY SERIES	
AS-M1202W-BH(RM10)-490/495/500/505/HV, white back side pattern (glazed glass), silver frame	
AS-M1202Y-BH(RM10)-490/495/500/505/HV, white back side pattern (glazed glass), black frame	

ELECTRICAL CHARACTERISTICS AT STC ^{1,2}					
Nominal Power (Pmax)	[Wp]	490	495	500	505
Power Sorting ³	[W]	0-5	0-5	0-5	0-5
Maximum Power Voltage (Vmp)	[V]	36.47	36.67	36.87	37.07
Maximum Power Current (Imp)	[A]	13.44	13.50	16.56	13.62
Open Circuit Voltage (Voc)	[V]	43.82	44.02	44.22	44.42
Short Circuit Current (Isc)	[A]	13.92	13.98	14.04	14.10
Module Efficiency (ηm)	[%]	22.2	22.4	22.6	22.8
Maximum System Voltage	[V]	1500	1500	1500	1500
Maximum Series Fuse	[A]	30	30	30	30

ELECTRICAL CHARACTERISTICS AT NMOT ⁴					
Maximum Power (Pmax)	[W]	369	373	376	380
Maximum Power Voltage (Vmp)	[V]	34.07	34.25	34.44	34.63
Maximum Power Current (Imp)	[A]	10.85	10.90	10.95	10.99
Open Circuit Voltage (Voc)	[V]	41.47	41.65	41.84	42.03
Short Circuit Current (Isc)	[A]	11.21	11.26	11.31	11.35

ELECTRICAL SPECIFICATIONS - INTEGRATED POWER / POWER GAIN ⁵					
Bifaciality factor		80 ± 10 %			
Pmpp Gain		10%	15%	20%	25%
Maximum Power (Pmax)	[W]	550	575	600	625
Maximum Power Voltage (Vmp)	[V]	41.00	42.40	44.24	46.08
Maximum Power Current (Imp)	[A]	15.00	16.00	16.27	17.00
Open Circuit Voltage (Voc)	[V]	49.00	51.00	53.06	55.27
Short Circuit Current (Isc)	[A]	15.44	16.14	17.00	18.00

MECHANICAL CHARACTERISTICS		
Solar cells	monocrystalline [pcs]	120
	Dimensions [mm]	RM10 Bifacial Half-cut [182 x 199]
Front glass	high-transparency	
	Thickness [mm] / [in]	2 / 0.08
Back glass	Transparent	2 / 0.08
Encapsulant	EVA	transparent
Frame	Anodized aluminum alloy	Silver or Black
	Split-type, IP68	
Junction box	Bypass diodes	3
	Length [mm] / [in]	1300/51.18
UV-resistant cables	Section [mm ²]/AWG	4/12
Connectors	MC4 Original	
Dimensions	H x L x W [mm]	1950 x 1134 x 30
	H x L x W [in]	76.77 x 44.65 x 1.18
Weight	[kg] / [lbs]	27.1 / 59.73
Maximum load	Wind / Snow [Pa]	2400 / 5400
Fire Class	Class A	

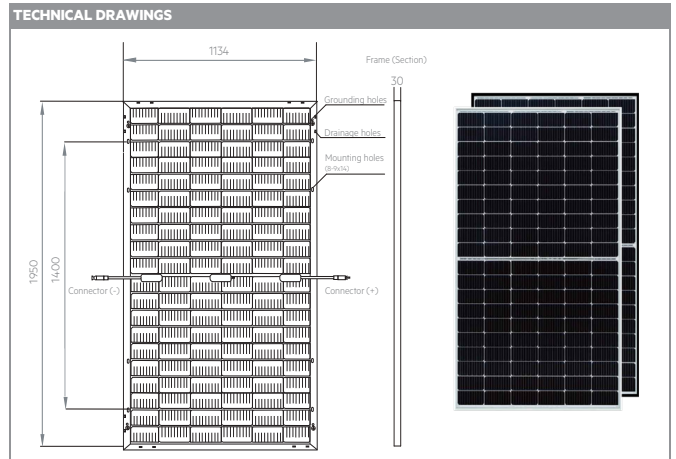
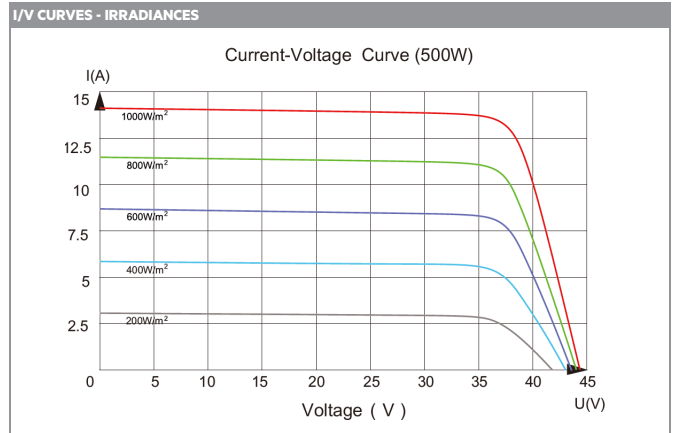
PACKAGING		
Packing configuration	[pcs/pallet]	36
Loading capacity	[pcs/40 ft container]	792

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±3.0%, Voc±3.0%, 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-NOCT: Nominal operating cell temperature, Irradiance 800 W/m ² , Wind Speed 1m/s, Ambient Temperature 20°C, Air Mass AM=1.5	
5-Electrical characteristics with different rear power gain. Reference to 500 W	
6-Full text of the Warranty Terms available at: www.aeg-solar.com	
7-(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 87.4%.	
Dimensions in the technical picture are expressed in mm with tolerance ±2 mm (+0.079 °) / Version 2024.05.V1.EN © Solar Solutions Group. Specifications in this datasheet are subject to change without notice.	
AEG is a registered trademark used under license from AB Electrolux (publ).	

CERTIFICATIONS	
System	ISO 9001, ISO 14001, ISO 45001
Product	EN IEC/IEC 61215-1:2021, EN IEC/IEC 61215-1:2021, EN IEC/IEC 61215-2:2021, IEC 61730-1:2016, IEC 61730-2:2016, EN IEC 61730-1:2018, EN IEC 61730-2:2018

WARRANTIES		
Product warranty ⁶	[years]	30
Performance warranty (linear) ⁷	[years]	30

TEMPERATURE CHARACTERISTICS		
NMOT	[°C]	45 (±2)
Pmax Temp. Coefficient (γ)	[%/°C]	-0.29
Voc Temp. Coefficient (β)	[%/°C]	-0.25
Isc Temp. Coefficient (α)	[%/°C]	0.048
Operating temperature	[°C]	-40~+85



CONTACT US
info@aeg-solar.com | www.aeg-solar.com