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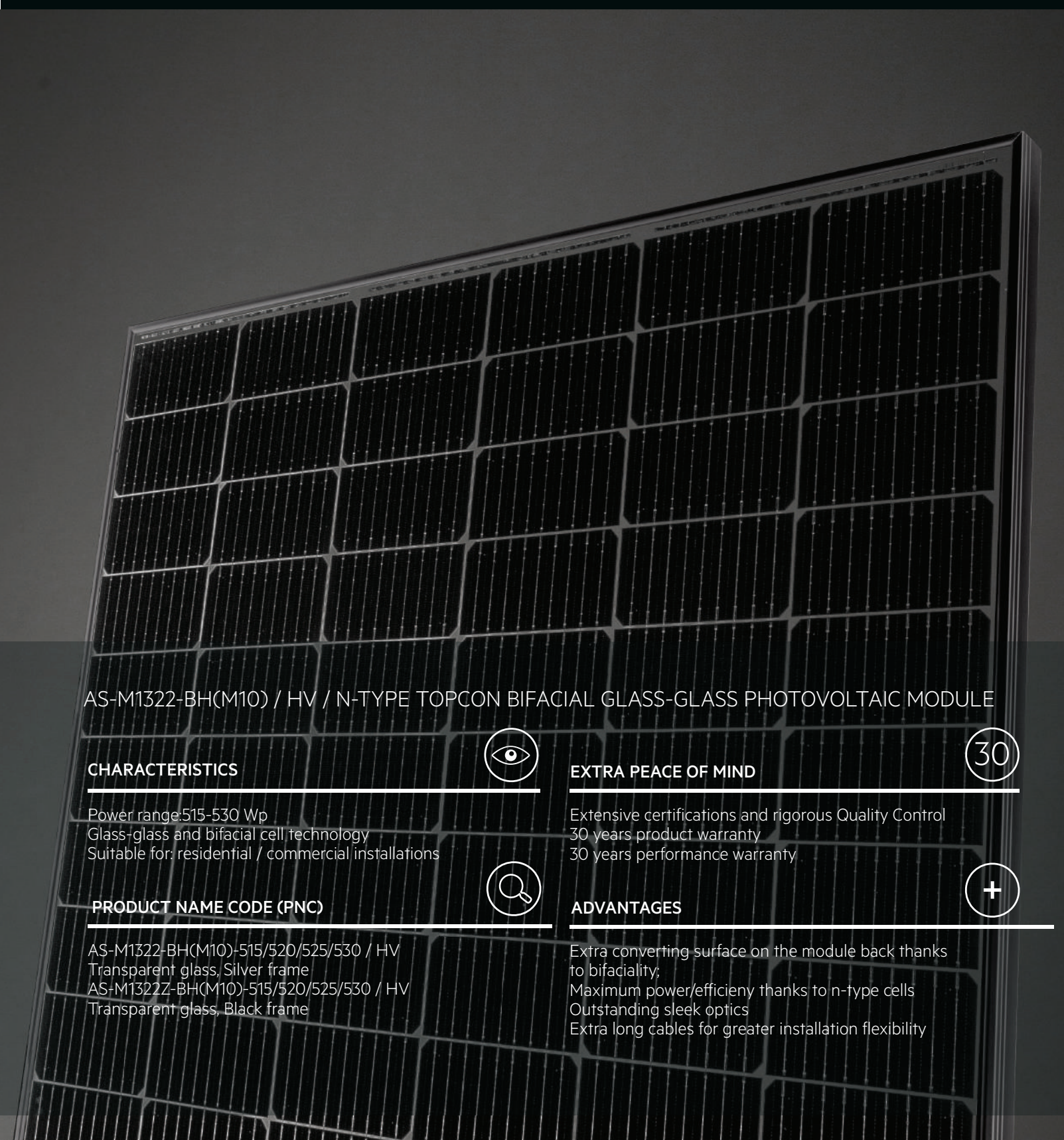
AEG PREMIUM SERIES



AS-M1322-BH(M10) / HV / N-TYPE TOPCON BIFACIAL GLASS-GLASS PHOTOVOLTAIC MODULE

CHARACTERISTICS

Power range:515-530 Wp
Glass-glass and bifacial cell technology
Suitable for: residential / commercial installations

PRODUCT NAME CODE (PNC)

AS-M1322-BH(M10)-515/520/525/530 / HV
Transparent glass, Silver frame
AS-M1322Z-BH(M10)-515/520/525/530 / HV
Transparent glass, Black frame

EXTRA PEACE OF MIND

30

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;
Maximum power/efficieny thanks to n-type cells
Outstanding sleek optics
Extra long cables for greater installation flexibility

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AS-M1322-BH(M10) / HV / N-TYPE TOPCON BIFACIAL GLASS-GLASS PHOTOVOLTAIC MODULE

PRODUCT SERIES & NAMECODE (PNC)
AEG PREMIUM SERIES
AS-M1322-BH(M10)-515/520/525/530/HV (transparent glass, silver frame)
AS-M1322Z-BH(M10)-515/520/525/530/HV (transparent glass, black frame)

CERTIFICATIONS		
System	ISO 9001, ISO 14001, ISO 45001	
Product	IEC/EN 61215-1:2016; IEC/EN 61215-1-1:2016; IEC 61215-2:2016; EN 61215-2:2017+AC:2017+AC:2018; IEC 61730-1:2016 / EN IEC 61730-1:2018+AC:2018; IEC 61730-2:2016 / EN IEC 61730-2:2018+AC:2018	

ELECTRICAL CHARACTERISTICS AT STC[1,2]					
Nominal Power (Pmax)	[Wp]	515	520	525	530
Power Sorting[3]	[W]	0-5	0-5	0-5	0-5
Maximum Power Voltage (Vmp)	[V]	39.24	39.43	39.62	39.81
Maximum Power Current (Imp)	[A]	13.14	13.20	13.26	13.32
Open Circuit Voltage (Voc)	[V]	47.10	47.29	47.48	47.67
Short Circuit Current (Isc)	[A]	13.78	13.84	13.89	13.94
Module Efficiency (ηm)	[%]	21.69	21.90	22.11	22.32
Maximum System Voltage	[V]	1500	1500	1500	1500
Series Fuse Maximum Rating	[A]	30	30	30	30

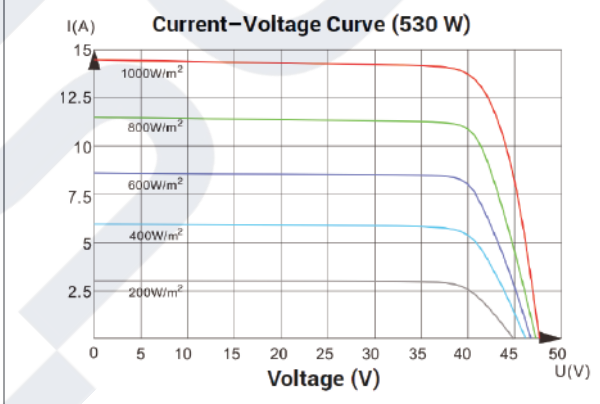
WARRANTIES		
Product warranty[6]	[years]	30
Performance warranty (linear)[7]	[years]	30

TEMPERATURE CHARACTERISTICS		
NMOT	[°C]	45 (±2)
Pmax Temp. Coefficient (γ)	[%°C]	-0.31
Voc Temp. Coefficient (β)	[%°C]	-0.26
Isc Temp.Coefficient (α)	[%°C]	0.038
Operating temperature	[°C]	-40~+85

ELECTRICAL CHARACTERISTICS AT NMOT[4]					
Maximum Power (Pmax)	[W]	387	391	395	399
Maximum Power Voltage (Vmp)	[V]	36.79	36.97	37.15	37.32
Maximum Power Current (Imp)	[A]	10.54	10.58	10.63	10.68
Open Circuit Voltage (Voc)	[V]	44.74	44.92	45.10	45.28
Short Circuit Current (Isc)	[A]	11.12	11.17	11.21	11.25

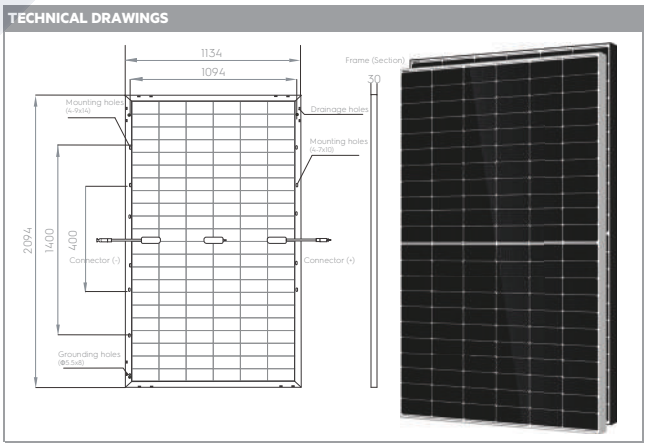
ELECTRICAL SPECIFICATIONS - INTEGRATED POWER / POWER GAIN[5]					
Bificiality Factor	80 ± 10%				
Pmpp Gain		10%	15%	20%	25%
Maximum Power (Pmax)	[W]	583	610	636	663
Maximum Power Voltage (Vmp)	[V]	44.00	46.00	48.00	50.00
Maximum Power Current (Imp)	[A]	15.00	15.31	16.00	17.00
Open Circuit Voltage (Voc)	[V]	52.43	55.00	57.20	60.00
Short Circuit Current (Isc)	[A]	15.33	16.03	17.00	17.42

I/V CURVES - IRRADIANCES



MECHANICAL CHARACTERISTICS		
Solar cells	monocrystalline [pcs]	132
	Dimensions [mm]	M10 Bifacial Half-cut [182 x 91]
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 color
Junction box	Split-type, IP68	
	Bypass diodes	3
UV-resistant cables	Length [mm] / [in]	1300 / 51.18
	Section [mm²]	4
Connectors	MC4	MC4 Original
Dimensions	H x L x W [mm]	2094 x 1134 x 30
	H x L x W [in]	82.44 x 44.65 x 1.18
Weight	[kg] / [lbs]	30.2 / 66.56
Maximum load	Wind / Snow [Pa]	2400 / 5400
Fire Class	Class A	

TECHNICAL DRAWINGS



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

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±3.0%, Voc±3.0%, Isc±4.0%
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-Electrical characteristics with different rear power gain. Reference to 530 W
6-Full text of the Warranty Terms available at: www.aeg-solar.com
7-(PRE/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 2023.12.V1.EN © Solar Solutions Group. Specifications in this datasheet are subject to change without notice.
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