

# AEG

## 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

### EXTRA PEACE OF MIND

30

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

### 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

### ADVANTAGES



Extra converting surface on the module back thanks to bifaciality;  
Maximum power/efficiency thanks to n-type cells  
Outstanding sleek optics  
Extra long cables for greater installation flexibility

## 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

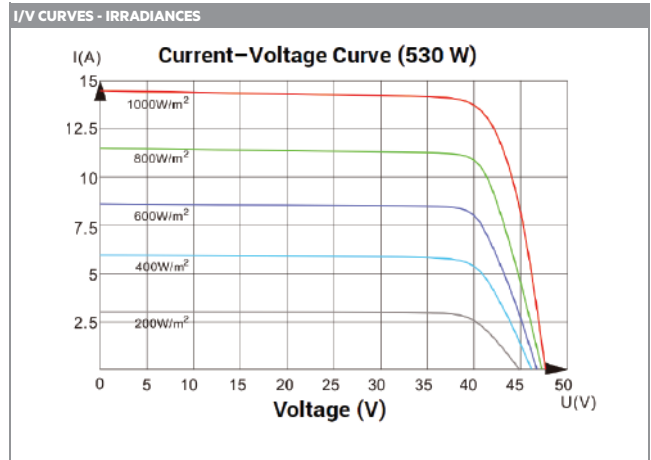
ELECTRICAL CHARACTERISTICS AT STC <sup>1,2</sup>					
Nominal Power (Pmax)	[Wp]	515	520	525	530
Power Sorting <sup>3</sup>	[W]	0-5	0-5	0-5	0-5
Maximum Power Voltage (Vmp)	[V]	39.24	39.43	39.62	39.81
Maximum Power Current (Imp)	[A]	13.14	13.20	13.26	13.32
Open Circuit Voltage (Voc)	[V]	47.10	47.29	47.48	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 <sup>6</sup>	[years]	30
Performance warranty (linear) <sup>7</sup>	[years]	30

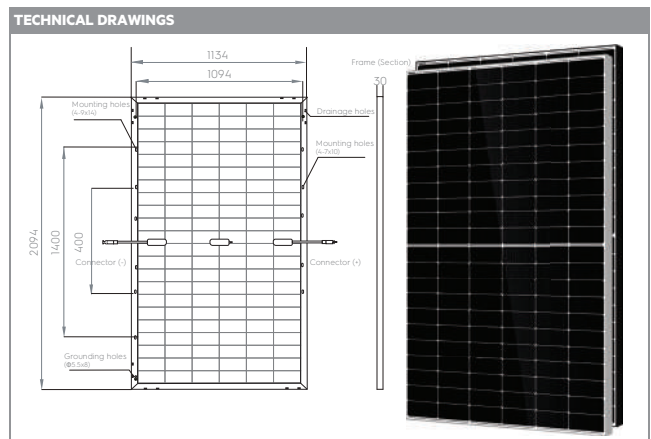
TEMPERATURE CHARACTERISTICS		
NMOT	[°C]	45 (±2)
Pmax Temp. Coefficient (γ)	[%/°C]	-0.31
Voc Temp. Coefficient (β)	[%/°C]	-0.26
Isc Temp. Coefficient (α)	[%/°C]	0.038
Operating temperature	[°C]	-40~+85

ELECTRICAL CHARACTERISTICS AT NMOT <sup>4</sup>					
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 <sup>5</sup>					
Bifaciality 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



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 [mm <sup>2</sup> ]	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



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

NOTES	
1-Standard Test Conditions (STC): Irradiance 1000 W/m <sup>2</sup> , 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/m <sup>2</sup> , 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: <a href="http://www.aeg-solar.com">www.aeg-solar.com</a>	
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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