

# AEG

## AEG PREMIUM SERIES

AS-M1208W-BH(M10) / HV - AS-M1208Y-BH(M10) / HV  
N-TYPE TOPCON BIFACIAL GLASS-GLASS PHOTOVOLTAIC MODULE

### CHARACTERISTICS



Power range: 470-485 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-M1208W-BH(M10)-470/475/480/485/HV  
white back side pattern (glazed glass), silver frame  
AS-M1208Y-BH(M10)-470/475/480/485/HV  
white back side pattern (glazed 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-M1208W-BH(M10) / HV - AS-M1208Y-BH(M10) / HV N-TYPE TOPCON BIFACIAL GLASS-GLASS PHOTOVOLTAIC MODULE

PRODUCT SERIES & NAMECODE (PNC)	
AEG PREMIUM EFFICIENCY SERIES	
AS-M1208W-BH(M10)-470/475/480/485/HV, white back side pattern (glazed glass), silver frame	
AS-M1208Y-BH(M10)-470/475/480/485/HV, white back side pattern (glazed glass), black frame	

ELECTRICAL CHARACTERISTICS AT STC <sup>1,2</sup>					
Nominal Power (Pmax)	[Wp]	470	475	480	485
Power Sorting <sup>3</sup>	[W]	0-5	0-5	0-5	0-5
Maximum Power Voltage (Vmp)	[V]	36.0	36.2	36.4	36.6
Maximum Power Current (Imp)	[A]	13.06	13.12	13.19	13.25
Open Circuit Voltage (Voc)	[V]	42.4	42.6	42.8	43.0
Short Circuit Current (Isc)	[A]	13.90	13.96	14.02	14.08
Module Efficiency (ηm)	[%]	21.78	22.01	22.24	22.47
Maximum System Voltage	[V]	1500	1500	1500	1500
Maximum Series Fuse	[A]	30	30	30	30

ELECTRICAL CHARACTERISTICS AT NOCT <sup>4</sup>					
Maximum Power (Pmax)	[W]	353	357	361	365
Maximum Power Voltage (Vmp)	[V]	34.20	34.39	34.58	34.77
Maximum Power Current (Imp)	[A]	10.33	10.39	10.44	10.49
Open Circuit Voltage (Voc)	[V]	40.28	40.47	40.66	40.85
Short Circuit Current (Isc)	[A]	11.22	11.27	11.32	11.37

ELECTRICAL SPECIFICATIONS - INTEGRATED POWER / POWER GAIN <sup>5</sup>					
Bifaciality factor	80 ± 10 %				
Pmpp Gain		10%	15%	20%	25%
Maximum Power (Pmax)	[W]	523	546.25	570	594
Maximum Power Voltage (Vmp)	[V]	40.00	42.00	43.44	45.25
Maximum Power Current (Imp)	[A]	14.43	15.08	16.00	16.40
Open Circuit Voltage (Voc)	[V]	47.00	49.00	51.12	53.25
Short Circuit Current (Isc)	[A]	15.35	16.05	17.00	17.45

MECHANICAL CHARACTERISTICS		
Solar cells	monocrystalline [pcs]	120
Dimensions [mm]	M10 Bifacial Half-cut [182 x 91]	
Front glass	high-transparency	
Back glass	Transparent	2 / 0.08
Encapsulant	EVA	transparent
Frame	Anodized aluminum alloy	Silver or Black
Junction box	Split-type, IP68	
	Bypass diodes	3
UV-resistant cables	Length [mm] / [in]	1200/47.24
	Section [mm <sup>2</sup> ]/AWG	4/12
Connectors	MC4-EVO2A	
Dimensions	H x L x W [mm]	1903 x 1134 x 30
	H x L x W [in]	74.92 x 44.65 x 1.18
Weight	[kg] / [lbs]	27.0 / 59.51
Maximum load	Wind / Snow [Pa]	2400 / 5400
Fire Class	Class A	

PACKAGING		
Packing configuration	[pcs/pallet]	36
Loading capacity	[pcs/40 ft container]	864

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±3%
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 <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 475 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 2024.01.V1.EN © Solar Solutions Group. Specifications in this datasheet are subject to change without notice.
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CERTIFICATIONS		
System	ISO 9001, ISO 14001, ISO 45001	
Product	IEC 61215, IEC 61730	

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]	-0.30
Voc Temp. Coefficient (β)	[%/°C]	-0.25
Isc Temp. Coefficient (α)	[%/°C]	0.046
Operating temperature	[°C]	-40~+85

