



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

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

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;
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 ¹²					
Nominal Power (Pmax)	[Wp]	470	475	480	485
Power Sorting ³	[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 ⁴					
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 ⁵					
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	
	Thickness [mm] / [in]	2 / 0.08
Back glass	Transparent	2 / 0.08
Encapsulant	EVA	transparent
Frame	Anodized aluminum alloy	Silver or Black
Junction box	Split-type, IP68	
	Bypass diodes	3
	Length [mm] / [in]	1200/47.24
UV-resistant cables	Section [mm ²]/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 ² , 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 ² , 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: 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 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 ⁶	[years]	30
Performance warranty (linear) ⁷	[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

