

# AEG

## AEG PREMIUM SERIES



AS-M1202B-BH(RM10) / HV / TOPCON BIFACIAL GLASS-GLASS PHOTOVOLTAIC MODULE

### TECHNICAL CHARACTERISTICS



Power range: 485-500 Wp  
Double glass bifacial Photovoltaic Module  
N-Type TOPCON cell technology  
Efficiency: 22.60%

### EXTRA PEACE OF MIND



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

### PRODUCT NAME CODE (PNC)



AS-M1202B-BH(RM10)-485/490/495/500/HV  
(back glass, black frame)

### ADVANTAGES



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

## AS-M1202B-BH(RM10) / HV / TOPCON BIFACIAL GLASS-GLASS PHOTOVOLTAIC MODULE

PRODUCT SERIES & NAMECODE (PNC)	
AEG PREMIUM SERIES	
AS-M1202B-BH(RM10)-485/490/495/500/HV	
Black glass, Black frame	

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

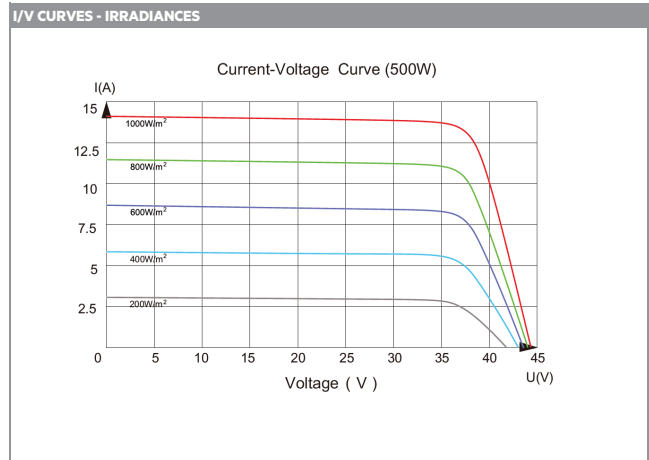
ELECTRICAL CHARACTERISTICS AT STC <sup>1,2</sup>					
Nominal Power (Pmax)	[Wp]	485	490	495	500
Power Sorting <sup>3</sup>	[W]	0-5	0-5	0-5	0-5
Maximum Power Voltage (Vmp)	[V]	36.27	36.47	36.67	36.87
Maximum Power Current (Imp)	[A]	13.38	13.44	13.50	13.56
Open Circuit Voltage (Voc)	[V]	43.62	43.82	44.02	44.22
Short Circuit Current (Isc)	[A]	13.86	13.92	13.98	14.04
Module Efficiency (ηm)	[%]	21.9	22.2	22.4	22.6
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

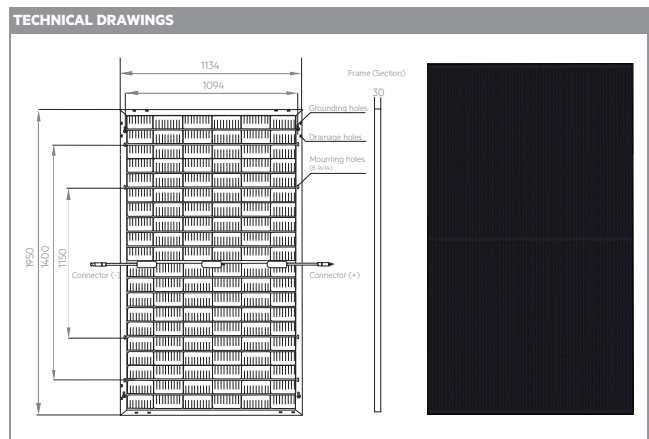
TEMPERATURE CHARACTERISTICS		
NMOT	[°C]	42 (±2)
Pmax Temp. Coefficient (γ)	[%/°C]	-0.29
Voc Temp. Coefficient (β)	[%/°C]	-0.25
Isc Temp. Coefficient (α)	[%/°C]	0.048
Operating temperature	[°C]	-40~+85

ELECTRICAL CHARACTERISTICS AT NMOT <sup>4</sup>					
Maximum Power (Pmax)	[W]	365	369	373	376
Maximum Power Voltage (Vmp)	[V]	33.88	34.07	34.25	34.44
Maximum Power Current (Imp)	[A]	10.80	10.85	10.90	10.95
Open Circuit Voltage (Voc)	[V]	41.28	41.47	41.65	41.84
Short Circuit Current (Isc)	[A]	11.16	11.21	11.26	11.31

ELECTRICAL SPECIFICATIONS - INTEGRATED POWER / POWER GAIN <sup>5</sup>					
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	black color
Junction box	Split-type, IP68	
	Bypass diodes	3
UV-resistant cables	Length [mm] / [in]	1300 / 51.8
	Section [mm <sup>2</sup> ]	4
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 C	



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 500 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 2024.02.V1EN © 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).	