

AEG

N-TYPE TOPCON BIFACIAL MODULE

AS-M1088W-BH(RM10A)/HV

AS-M1088Y-BH(RM10A)/HV

CHARACTERISTICS

Power range: 495-510 Wp

Double glass bifacial Photovoltaic Module

Half-Cut N-Type TOPCON cell technology

Efficiency up to 22.92%

2.0 mm glass thickness

2 mm

ADVANTAGES

Extra converting surface on the module back thanks to bifaciality

High performance in anti-hidden cracking

Laser assisted sintering technology lowers contact resistance & enhances efficiency by 0.2-0.5 %

Low attenuation improves temperature coefficient & dim light performance

Extra power thanks to enlarge rectangular solar cells



**30 YEARS PRODUCT WARRANTY AND
30 YEARS PERFORMANCE WARRANTY**



N-TYPE TOPCON BIFACIAL MODULE

AS-M1088W-BH(RM1A)/HV | AS-M1088Y-BH(RM10A)/HV

PRODUCT SERIES & NAMECODE (PNC)	
AEG HIGH EFFICIENCY SERIES	
AS-M1088W-BH(RM10A)-495/500/505/510/HV, white back side pattern (glazed glass), silver frame	
AS-M1088Y-BH(RM10A)-495/500/505/510/HV, white back side pattern (glazed glass), black frame	

ELECTRICAL CHARACTERISTICS AT STC ^{1,2}					
Nominal Power (Pmax)	[Wp]	495	500	505	510
Power Sorting ³	[W]	0-5	0-5	0-5	0-5
Maximum Power Voltage (Vmp)	[V]	33.70	33.90	34.10	34.30
Maximum Power Current (Imp)	[A]	14.69	14.75	14.81	14.87
Open Circuit Voltage (Voc)	[V]	39.70	39.90	40.10	40.30
Short Circuit Current (Isc)	[A]	15.64	15.70	15.76	15.82
Module Efficiency (ηm)	[%]	22.25	22.47	22.70	22.92
Maximum System Voltage	[V]	1500	1500	1500	1500
Series Fuse Maximum Rating	[A]	30	30	30	30

ELECTRICAL CHARACTERISTICS AT NOCT ⁴					
Maximum Power (Pmax)	[W]	372	376	380	384
Maximum Power Voltage (Vmp)	[V]	32.00	32.20	32.40	32.60
Maximum Power Current (Imp)	[A]	11.63	11.68	11.72	11.77
Open Circuit Voltage (Voc)	[V]	37.70	37.90	38.10	38.30
Short Circuit Current (Isc)	[A]	12.63	12.68	12.72	12.77

ELECTRICAL SPECIFICATIONS - INTEGRATED POWER / POWER GAIN ⁵					
Bifaciality Factor		85±5%			
Pmpp Gain	[%]	10	15	20	25
Maximum Power (Pmax)	[W]	561	587	612	638
Maximum Power Voltage (Vmp)	[V]	38.73	39.44	41.16	42.87
Maximum Power Current (Imp)	[A]	16.35	17.10	17.84	18.58
Open Circuit Voltage (Voc)	[V]	44.33	46.34	48.36	50.37
Short Circuit Current (Isc)	[A]	17.40	18.19	18.98	19.77

MECHANICAL CHARACTERISTICS		
Solar cells	monocrystalline [pcs]	108
	Dimensions [mm]	RM10A Bifacial Half-cut [182 x 105mm]
Front glass	high-transparency	
	Thickness [mm] / [in]	2.0 / 0.08
Back glass	heat strengthened glass	2.0 / 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 [mm²/AWG]	4/12
Connectors	MC4-Original	
Dimensions	H x L x W [mm]	1962x 1134 x 30
	H x L x W [in]	77.24 x 44.65 x 1.18
Weight	[kg] / [lbs]	26.6 / 58.63
Maximum load	Wind / Snow [Pa]	2400 / 5400
Fire Class	Class A	

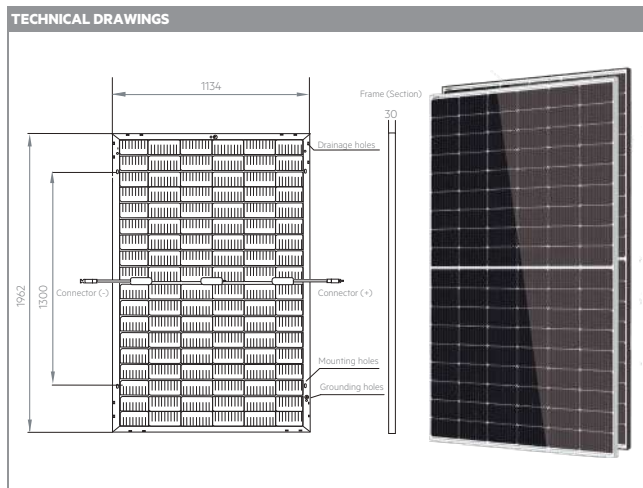
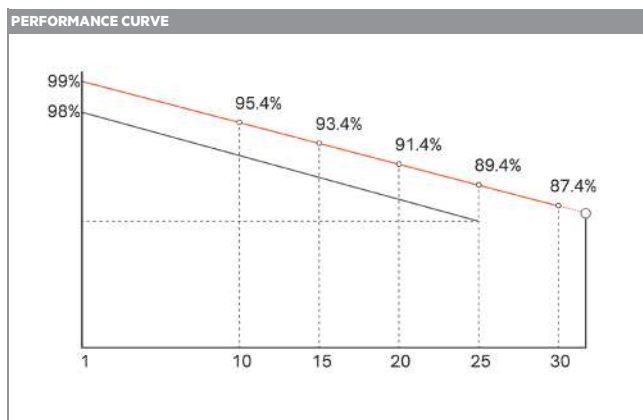
PACKAGING		
Packing configuration	[pcs/pallet]	36
Loading capacity	[pcs/40 ft container]	864

NOTES
1-Standard Test Conditions (STC): Irradiance 1000 W/m², Air Mass AM = 1.5, Cell Temperature 25°C
2-Measurement tolerances (IEC 61215:2016): Pmax±3.0%, Voc±3.0%, Isc±3.0%
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 module operating temperature, 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 510 W
6- Full text of the Warranty Terms available at: www.aeg-solar.com
7-(HE/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 2026.01.V1.EN © Solar Solutions Group. Specifications in this datasheet are subject to change without notice.
AEG is a pending or registered trademark used under license from AB Electrolux (publ).

CERTIFICATIONS		
System	ISO 9001, ISO 14001, ISO 45001	
Product	IEC 61215-1/2:2021, IEC 61215-1-1:2021; EN IEC 61215-1/2:2021, EN IEC 61215-1-1:2021; IEC 61730-1/2:2023	

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

TEMPERATURE CHARACTERISTICS		
NMOT	[°C]	45 (±2)
Pmax Temp. Coefficient (γ)	[%°C]	-0.29
Voc Temp. Coefficient (β)	[%°C]	-0.25
Isc Temp.Coefficient (α)	[%°C]	0.046
Operating temperature	[°C]	-40~+85



SOLAR SOLUTIONS AG

Riedweg 3 | 6418 Rothenthurm | Switzerland
www.aeg-solar.com | info@aeg-solar.com

AEG is a registered trademark used under license from AB Electrolux (publ)