AEG



HYBRID PASSIVATED BACK CONTACT

DOUBLE GLASS SOLAR MODULE

AS-M1081B-GA(M10)/HV

CHARACTERISTICS

Power range: 470-485 Wp
Hybrid Passivated Back Contact Cell technology
Half-Cut N-Type cell technology with zero bus bar
Efficiency up to 23.8%

ADVANTAGES

Anti-Shading design & Prevent localized overheating
Maximum power/ efficieny thanks to HPBC technology
Premium full black look

EUPD RESEARCH
TOP BRAND PV
MODULE
NEDERLAND
2024

40 YEARS WARRANTY | SUPERIOR QUALITY MADE TO LAST

30 YEARS PRODUCT WARRANTY AND
30 YEARS PERFORMANCE WARRANTY
40 YEARS EXCHANGE AND REFUND SERVICE

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HYBRID PASSIVATED BACK CONTACT DOUBLE GLASS SOLAR MODULE

AS-M1081B-GA(M10)/HV

PRODUCT SERIES & NAMECODE (PNC)
AEG PREMIUM SERIES
AS-M1081B-GA(M10)-470/475/480/485/ HV
black frame, black rear glass

CERTIFICATIONS		
System	ISO 9001, ISO 14001, ISO 45001	
Product	IEC 61215; IEC 61730; IEC 62941	

ELECTRICAL CHARACTERISTICS AT STC[1,2]					
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]	33.29	33.40	33.51	33.62
Maximum Power Current (Imp)	[A]	14.13	14.23	14.33	14.43
Open Circuit Voltage (Voc)	[V]	40.31	40.42	40.53	40.64
Short Circuit Current (Isc)	[A]	14.78	14.88	14.98	15.08
Module Efficiency (ηm)	[%]	23.0	23.3	23.5	23.8
Maximum System Voltage	[V]	1500	1500	1500	1500
Series Fuse Maximum Rating	[A]	30	30	30	30

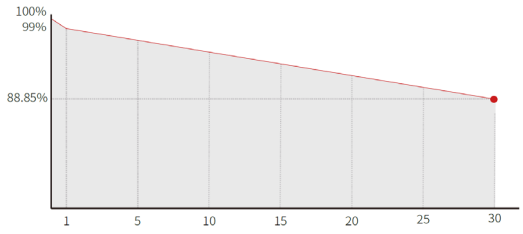
WARRANTIES		
Product warranty[5]	[years]	30
Performance warranty (linear)[6]	[years]	30

TEMPERATURE CHARACTERISTICS		
NOCT	[°C]	45 (±2)
Pmax Temp. Coefficient (γ)	[%/°C]	-0.26
Voc Temp. Coefficient (β)	[%/°C]	-0.20
Isc Temp.Coefficient (α)	[%/°C]	+0.050
Operating temperature	[°C]	–40~+85

ELECTRICAL CHARACTERISTICS AT NOCT[4]					
Maximum Power (Pmax)	[W]	357	361	365	369
Maximum Power Voltage (Vmp)	[V]	31.6	31.71	31.82	31.93
Maximum Power Current (Imp)	[A]	11.3	11.39	11.48	11.56
Open Circuit Voltage (Voc)	[V]	38.28	38.39	38.50	38.61
Short Circuit Current (Isc)	[A]	11.84	11.93	12.02	12.10

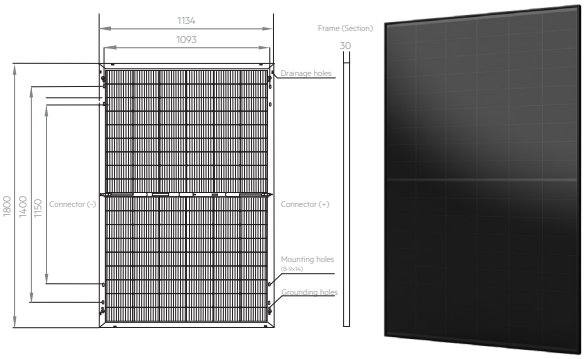
ELECTRICAL SPECIFICATIONS - INTEGRATED POWER / POWER GAIN[5]					
Bifaciality Factor	[%]	85±5			
Pmpp Gain	[%]	10	15	20	25
Maximum Power (Pmax)	[Wp]	517	541	564	588
Maximum Power Voltage (Vmp)	[V]	37.00	38.28	40.00	42.00
Maximum Power Current (Imp)	[A]	16.00	16.24	17.00	18.00
Open Circuit Voltage (Voc)	[V]	44.34	46.35	48.37	50.38
Short Circuit Current (Isc)	[A]	16.25	17.00	18.00	18.47

WARRANTY CURVE



MECHANICAL CHARACTERISTICS		
Solar cells	monocrystalline [pcs]	108
	Dimensions [mm]	M10 Half-cut [182 x 91]
Front glass	Semi-tempered glass	
	Thickness [mm] / [in]	2.0 / 0.08
Back glass	Semi-tempered glass	1.6 / 0.06
Encapsulant	EVA	
Frame	Anodized aluminum alloy	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	
Dimensions	H x L x W [mm]	1800 x 1134 x 30
	H x L x W [in]	70.87 x 44.65 x 1.18
Weight	[kg] / [lbs]	23.5 / 51.79
Hail resistance	Max. Ø 25 mm at 23 m/s	
Maximum Static Load	Rear / Front [Pa]	2400 / 5400
Fire Class	Class C	

TECHNICAL DRAWINGS



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, Wind Speed 1m/s, Cell Temperature 25°C

2-Measurement tolerances (IEC 61215:2016): Pmax±3%, Voc±3%, 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/m², Wind Speed 1m/s; Ambient Temperature 20°C, Air Mass AM=1.5

5-Full text of the Warranty Terms available at: www.aeg-solar.com

6-(PRE/GG) No less than 99.0% of the minimum "Peak Power at STC"in the first year; power output decline no more than 0.35% per year thereafter, ending with 88.85%.

Dimensions in the technical picture are expressed in mm with tolerance ±2 mm (±0.079 ") / Version 2026.07.V1.EN © Solar Solutions Group. Specifications in this datasheet are subject to change without notice.

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