

AEG

HYBRID PASSIVATED BACK CONTACT

DOUBLE GLASS SOLAR MODULE

AS-M1081B-GA(M10)/HV

CHARACTERISTICS

Power range: 475-490 Wp

Hybrid Passivated Back Contact Cell technology

Half-Cut N-Type cell technology with zero bus bar

Efficiency up to 24.0%

ADVANTAGES

Anti-Shading design & Prevent localized overheating

Maximum power/ efficiency thanks to HPBC technology

Exchange and refund service up to 30 years

Premium full black look



**25 YEARS PRODUCT WARRANTY AND
30 YEARS PERFORMANCE WARRANTY
30 YEARS EXCHANGE AND REFUND SERVICE**



HYBRID PASSIVATED BACK CONTACT DOUBLE GLASS SOLAR MODULE

AS-M1081B-GA(M10)/HV

PRODUCT SERIES & NAMECODE (PNC)				
AEG PREMIUM SERIES				
AS-M1081B-GA(M10)-475/480/485/490/ HV				
black frame, black rear glass				

ELECTRICAL CHARACTERISTICS AT STC ^{1,2}					
Nominal Power (Pmax)	[Wp]	475	480	485	490
Power Sorting ³	[W]	0-5	0-5	0-5	0-5
Maximum Power Voltage (Vmp)	[V]	33.4	33.51	33.62	33.73
Maximum Power Current (Imp)	[A]	14.23	14.33	14.43	14.53
Open Circuit Voltage (Voc)	[V]	40.42	40.53	40.64	40.75
Short Circuit Current (Isc)	[A]	14.88	14.98	15.08	15.18
Module Efficiency (ηm)	[%]	23.3	23.5	23.8	24.0
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]	361	365	369	373
Maximum Power Voltage (Vmp)	[V]	31.71	31.82	31.93	32.05
Maximum Power Current (Imp)	[A]	11.39	11.48	11.56	11.65
Open Circuit Voltage (Voc)	[V]	38.39	38.50	38.61	38.73
Short Circuit Current (Isc)	[A]	11.93	12.02	12.10	12.19

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	
	Thickness [mm] / [in]	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 [mm ² /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	

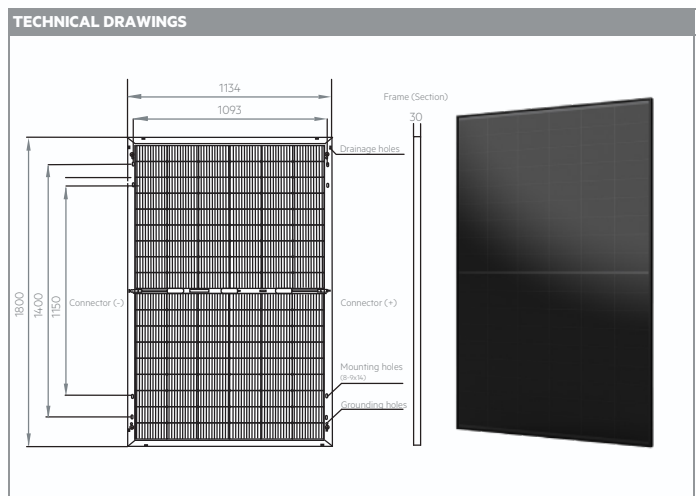
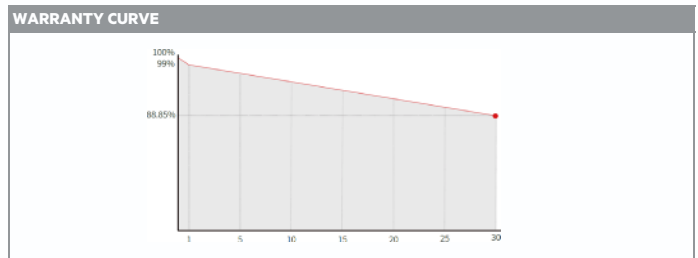
PACKAGING		
Packing configuration	[pcs/pallet]	36
Loading capacity	[pcs/40 ft container]	864

NOTES	
1-Standard Test Conditions (STC): Irradiance 1000 W/m ² , Air Mass AM = 1.5, 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/m ² , 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 2025.3.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; IEC 62941	

WARRANTIES		
Product warranty ⁵	[years]	25
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



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