

AEG

AEG PREMIUM SERIES

AS-M1082B-BH(M10)/HV / BIFACIAL GLASS-GLASS PHOTOVOLTAIC MODULE

CHARACTERISTICS



Power range: 395-405 Wp
Glass-glass and bifacial cell technology
Suitable for: residential / commercial installations

EXTRA PEACE OF MIND



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

PRODUCT NAME CODE (PNC)



AS-M1082B-BH(M10)-395/400/405/HV
(black glass, black frame)

ADVANTAGES



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

AS-M1082B-BH(M10)/HV / BIFACIAL GLASS-GLASS PHOTOVOLTAIC MODULE

PRODUCT SERIES & NAMECODE (PNC)	
AEG PREMIUM SERIES	
AS-M10802B-BH(M10)-395/400/405/HV	
black glass, black frame	

CERTIFICATIONS	
System	ISO 9001, ISO 14001, ISO 45001
Product	IEC/EN 61215-1:2016; IEC/EN 61215-1-1:2016; IEC 61215-2:2016; EN 61215-2:2017-AC:2017-AC:2018; IEC 61730-1:2016 / EN IEC 61730-1:2018-AC:2018; IEC 61730-2:2016 / EN IEC 61730-2:2018-AC:2018

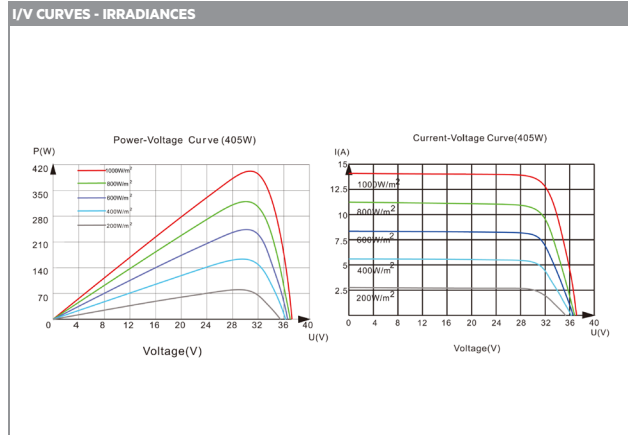
ELECTRICAL CHARACTERISTICS AT STC ^{1,2}				
Nominal Power (Pmax)	[Wp]	395	400	405
Power Sorting ³	[W]	0-5	0-5	0-5
Maximum Power Voltage (Vmp)	[V]	30.56	30.73	30.91
Maximum Power Current (Imp)	[A]	12.94	13.03	13.11
Open Circuit Voltage (Voc)	[V]	36.97	37.09	37.21
Short Circuit Current (Isc)	[A]	13.81	13.90	13.98
Module Efficiency (ηm)	[%]	20.23	20.48	20.74
Maximum System Voltage	[V]	1500	1500	1500
Series Fuse Maximum Rating	[A]	30	30	30

WARRANTIES		
Product warranty ⁶	[years]	15 (opt.ext.to 20)
Performance warranty (linear) ⁷	[years]	30

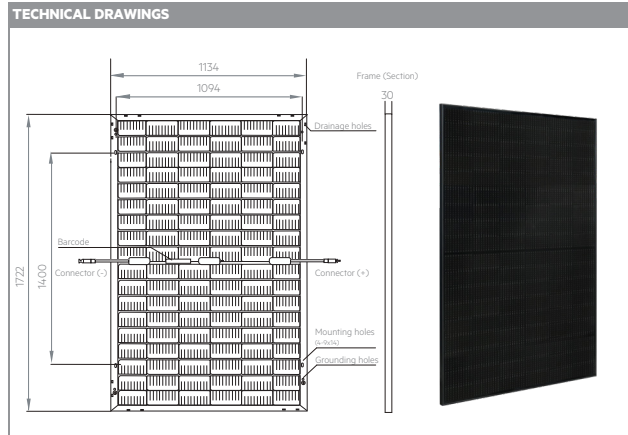
ELECTRICAL CHARACTERISTICS AT NOCT ⁴				
Maximum Power (Pmax)	[W]	299	303	307
Maximum Power Voltage (Vmp)	[V]	29.12	29.28	29.45
Maximum Power Current (Imp)	[A]	10.29	10.36	10.43
Open Circuit Voltage (Voc)	[V]	35.00	35.11	35.23
Short Circuit Current (Isc)	[A]	11.18	11.26	11.32

TEMPERATURE CHARACTERISTICS		
NMOT	[°C]	42.3 (±2)
Pmax Temp. Coefficient (γ)	[%°C]	-0.335
Voc Temp. Coefficient (β)	[%°C]	-0.269
Isc Temp. Coefficient (α)	[%°C]	0.063
Operating temperature	[°C]	-40~+85

ELECTRICAL SPECIFICATIONS - INTEGRATED POWER / POWER GAIN ⁵					
Pmax Gain	395	[%]	10	20	30
Maximum Power		[W]	435	474	514
Pmax Gain	400	[%]	10	20	30
Maximum Power		[W]	440	480	520
Pmax Gain	405	[%]	10	20	30
Maximum Power		[W]	446	486	527



MECHANICAL CHARACTERISTICS		
Solar cells	monocrystalline [pcs]	108
	Dimensions [mm]	M10 Bifacial Half-cut [182 x 91]
Front glass	high-transparency	
	Thickness [mm] / [in]	2 / 0.08
Back glass	Black	2 / 0.08
Encapsulant	EVA	transparent
Frame	Anodized aluminum alloy	black
Junction box	Split-type, IP68	
	Bypass diodes	3
UV-resistant cables	Length [mm] / [in]	1100 / 43.31
	Section [mm ²]	4
Connectors	MC4	MC4 original
Dimensions	H x L x W [mm]	1722 x 1134 x 30
	H x L x W [in]	67.80 x 44.65 x 1.18
Weight	[kg] / [lbs]	25.1 / 55.32
Maximum load	Wind / Snow [Pa]	2400 / 5400
Fire Class	Class C	



PACKAGING		
Packing configuration	[pcs/pallet]	36
Loading capacity	[pcs/40 ft container]	936

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%, Voc±4%, Isc±4%	
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	
6-Full text of the Warranty Terms available at www.aeg-industrialsolar.de . The Extended Warranty is a separate offer. If not offered by your distributor, the standard warranty conditions apply.	
7-(PRE/GG) No less than 98% of the minimum "Peak Power at STC" in the first year; power output decline no more than 0.45% per year thereafter, ending with 85%.	
Dimensions in the technical picture are expressed in mm with tolerance +2 mm (+0.079") / Version 2023.01.V1.EN © Solar Solutions Group. Specifications in this datasheet are subject to change without notice.	
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