

# AEG PREMIUM SERIES



## AS-M1089B-GA(M10)/HV / N-TYPE ABC GLASS-GLASS PHOTOVOLTAIC MODULE

#### CHARACTERISTICS

Power range: 445-455 Wp Glass-glass and ABC N-type back-contact technology Suitable for: residential / commercial installations

#### PRODUCT NAME CODE (PNC)

AS-M1089B-GA(M10)-445/450/455/HV (black rear glass, black frame)





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Extensive certifications and rigorous Quality Control 40 years product warranty 40 years performance warranty

#### ADVANTAGES

Superior efficiency (up to 23.3%) thanks to ABC N-type back-contact technology Sleek full black look, premium aesthetics Higher sustainability thanks to silver-free metallization Outstanding performance / low degradation over product lifetime





### AS-M1089B-GA(M10)/HV / N-TYPE ABC GLASS-GLASS PHOTOVOLTAIC MODULE

PRODUCT SERIES & NAMECODE (PNC)
AEG PREMIUM SERIES
AS-M1089B-GA(M10)/HV-445/450/455/HV
black frame, black rear glass

ELECTRICAL CHARACTERISTICS AT ST	C <sup>1,2</sup>			
Nominal Power (Pmax)	[Wp]	445	450	455
Power Sorting <sup>3</sup>	[W]	0-5	0-5	0-5
Maximum Power Voltage (Vmp)	[V]	33.79	33.89	33.99
Maximum Power Current (Imp)	[A]	13.18	13.28	13.39
Open Circuit Voltage (Voc)	[V]	40.15	40.25	40.35
Short Circuit Current (Isc)	[A]	13.68	13.74	13.80
Module Efficiency (ηm)	[%]	22.8	23.0	23.3
Maximum System Voltage	[V]	1500	1500	1500
Series Fuse Maximum Rating	[A]	25	25	25

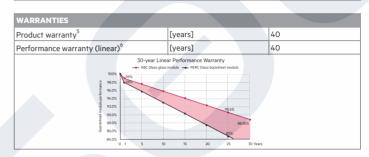
ELECTRICAL CHARACTERISTICS AT N	юст			
Maximum Power (Pmax)	[W]	336	339	343
Maximum Power Voltage (Vmp)	[V]	31.83	31.92	32.01
Maximum Power Current (Imp)	[A]	10.56	10.65	10.73
Open Circuit Voltage (Voc)	[V]	37.82	37.91	38.00
Short Circuit Current (Isc)	[A]	11.03	11.08	11.13

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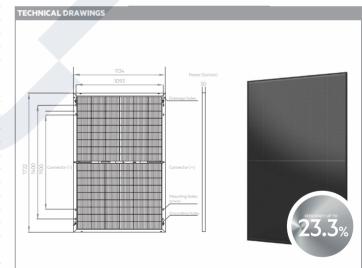
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Solar cells	monocrystalline [pcs]	108			
Solar Cells	Dimensions [mm]	M10 Half-cut ABC [182 x 91]			
Front class	Coated semi-tempered glas	Coated semi-tempered glass			
Front glass	Thickness [mm] / [in]	2.0 / 0.08			
Back glass	2.0 / 0.08	Black			
Frame	Anodized aluminum alloy Black				
1	Split-type, IP68	Split-type, IP68			
Junction box	Bypass diodes	3			
	Length [mm] / [in]	1200 / 47.24			
UV-resistant cables	Section [mm <sup>2</sup> ]	4			
Connectors	MC4 EVO2A	MC4 EVO2A			
Dimension	H×L×W [mm]	1722 x 1134 x 30			
Dimensions	H×L×W [in]	67.80 x 44.65 x 1.18			
Weight	[kg] / [lbs]	24 / 52.90			
Maximum load	Wind / Snow [Pa]	2400 / 5400			
Fire Class	Class A				
PACKAGING					

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

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



TEMPERATURE CHARACTERISTICS			
NOCT	[°C]	45 (±2)	
Pmax Temp. Coefficient (γ)	[%°C]	-0.29	
Voc Temp. Coefficient (β)	[%°C]	-0.24	
lsc Temp.Coefficient (α)	[%°C]	0,05	
Operating temperature	[°C]	-40~+85	



NOTES

1-Standard Test Conditions (STC): Irradiance 1000 W/m<sup>2</sup>, Air Mass AM = 15, Cell Temperature 25°C) 2-Measurement tolerances (EC 61215:2016): Pmax±3%, Voct3%, 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; STC: AM15 1000W/m<sup>2</sup> 25 NOCTAM15.800W/m<sup>2</sup> 20 1m/s) 5-EXTENDED / Full text of the Warranty Terms available at: https://www.solarsolutions.ag/warranty/aeg/.The Extended Warranty is a separate offer. If not offered by your distributor, the standard warranty conditions apply. 6-CRPE/GO No less than 9% of the minimum "Peak Power at STC" in the first year; power output decline no more than 0.35% per year thereafter, ending with at least 85.35%. Dimensions in the technical picture are expressed in mm with tolerance ±2 mm (±0.079 °) / Version 2024;01/LEN © Solar Solutions AG. Specifications in this datasheet are subject to change without notice. AEG is registered trademark used under license from AB Electrolux (pub).

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