

AEG HIGH EFFICIENCY SERIES

AS-M1203-H(M10) / HALF-CUT CELLS PHOTOVOLTAIC MODULE

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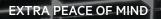
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CHARACTERISTICS

Power range: 450-460 Wp Half-Cut-cell technology Suitable for: residential / commercial installations

PRODUCT NAME CODE (PNC)

AS-M1203-H(M10)-450/455/460/HV (white backsheet, silver frame) AS-M1203Z-H(M10)-450/455/460/HV (white backsheet, black frame)





Extensive certifications and rigorous Quality Control 25 years product warranty 25 years performance warranty

ADVANTAGES

More converting surface, more energy outputs Outstanding sleek optics Extra long cables for greater installation flexibility

AEG

AS-M1203-H(M10) / HALF-CUT CELLS PHOTOVOLTAIC MODULE

PRODUCT SERIES & NAMECODE (PNC)
AEG HIGH EFFICIENCY SERIES
AS-M1203-H(M10)-450/455/460-HV, silver frame
AS-M1203Z-H(M10)-450/455/460-HV, black frame

ELECTRICAL CHARACTERISTICS AT STC ^{1,2}				
Nominal Power (Pmax)	[Wp]	450	455	460
Power Sorting ³	[W]	0-5	0-5	0-5
Maximum Power Voltage (Vmp)	[V]	34.83	35.00	35.17
Maximum Power Current (Imp)	[A]	12.92	13.00	13.08
Open Circuit Voltage (Voc)	[V]	41.45	41.65	41.85
Short Circuit Current (Isc)	[A]	13.71	13.81	13.91
Module Efficiency (ηm)	[%]	20.9	21.1	21.3
Maximum System Voltage	[V]	1500	1500	1500
Series Fuse Maximum Rating	[A]	25	25	25

ELECTRICAL CHARACTERISTICS AT NMOT ⁴				
Maximum Power (Pmax)	[W]	336.3	340.0	343.8
Maximum Power Voltage (Vmp)	[V]	32.46	32.62	32.78
Maximum Power Current (Imp)	[A]	10.36	10.42	10.49
Open Circuit Voltage (Voc)	[V]	39.17	39.36	39.55
Short Circuit Current (Isc)	[A]	11.12	11.20	11.29

MECHANICAL CHARACTER	ISTICS			
Solar cells	monocrystalline [pcs]	120		
Solal Cells	Dimensions [mm]	M10 Bifacial [182 x 182]		
Front class	high-transparency	high-transparency		
Front glass	Thickness [mm] / [in]	3.2 / 0.13		
Backsheet	White			
Encapsulant	EVA			
Frame	Anodized aluminum alloy	Silver or black		
Junction box	Split-type, IP68	Split-type, IP68		
JUNCHON DOX	Bypass diodes	3		
	Length [mm] / [in]	1200 / 47.24		
UV-resistant cables	Section [mm ²]	4		
Connectors	MC4			
• •	HxLxW [mm]	1903 x 1134 x 35		
Dimensions	HxLxW [in]	74.92 x 44.65 x 1.38		
Weight	[kg] / [lbs]	23.8 (23.5) / 52.46 (51.79)		
Maximum load	Wind / Snow [Pa]	2400 / 5400		
Fire Class	Class C			

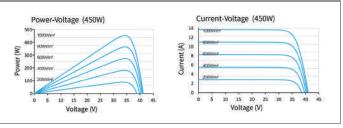
PACKAGING		
Packing configuration	[pcs/pallet]	31
Loading capacity	[pcs/40 ft container]	744

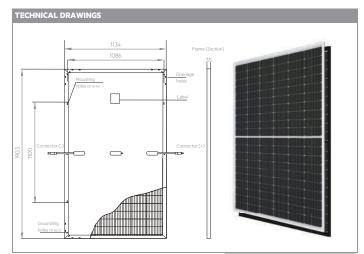
CERTIFICATIONS	
System	ISO 9001, ISO 14001, ISO 45001
Product	IEC 61215, IEC 61730

WARRANTIES			
Product warranty ⁵	[years]	25	
Performance warranty (linear) ⁶	[years]	25	

TEMPERATURE CHARACTERISTICS			
NMOT	[°C]	41 (±2)	
Pmax Temp. Coefficient (γ)	[%°C]	-0.35	
Voc Temp. Coefficient (β)	[%°C]	-0.27	
lsc Temp.Coefficient (α)	[%°C]	0,045	
Operating temperature	[°C]	-40~+85	

I/V CURVES - IRRADIANCES





NOTES
I-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±3%, Isc±5%
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 operating temperature of module, Irradiance 800 W/m ² , Wind Speed 1m/s; Ambient Temperature 20°C, Air Mass AM=15
5-Full text of the Warranty Terms available at: www.solarsolutions.ag/aeg/warranty . If not offered by your distributor, the standard warranty conditions apply.
6-(HE/GB) No less than 98% of the minimum "Peak Power at STC" in the first year; power output decline no more than 0.55% per year thereafter, ending with 84.8%.
Dimensions in the technical picture are expressed in mm with tolerance ±2 mm (±0.079 ") / Version 2022.10.01.EN © Solar Solutions GmbH. Specifications in this datasheet are subject to change without notice.
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