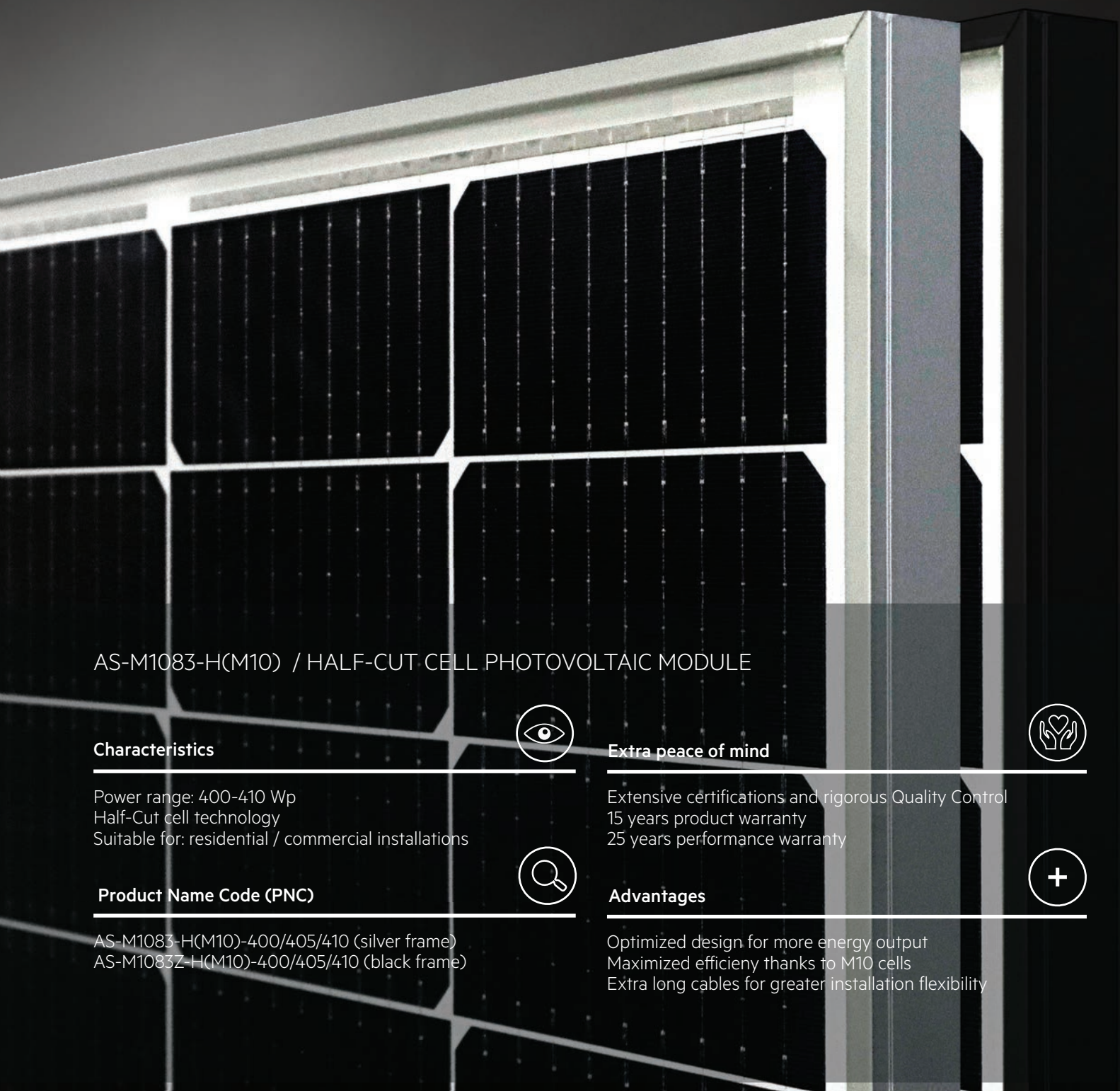




# AEG HIGH EFFICIENCY SERIES



## AS-M1083-H(M10) / HALF-CUT CELL PHOTOVOLTAIC MODULE

### Characteristics

Power range: 400-410 Wp  
Half-Cut cell technology  
Suitable for: residential / commercial installations



### Extra peace of mind

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



### Product Name Code (PNC)

AS-M1083-H(M10)-400/405/410 (silver frame)  
AS-M1083Z-H(M10)-400/405/410 (black frame)



### Advantages

Optimized design for more energy output  
Maximized efficiency thanks to M10 cells  
Extra long cables for greater installation flexibility



## AS-M1083-H(M10) / HALF-CUT CELL PHOTOVOLTAIC MODULE

PRODUCT SERIES & NAMECODE (PNC)	
AEG HIGH EFFICIENCY SERIES	
AS-M1083-H(M10)-400/405/410/HV (silver frame)	
AS-M1083Z-H(M10)-400/405/410/HV (black frame)	

ELECTRICAL CHARACTERISTICS AT STC <sup>1,2</sup>				
Nominal Power (Pmax)	[Wp]	400	405	410
Power Sorting <sup>3</sup>	[W]	0-5	0-5	0-5
Maximum Power Voltage (Vmp)	[V]	31.09	31.26	31.43
Maximum Power Current (Imp)	[A]	12.86	12.96	13.05
Open Circuit Voltage (Voc)	[V]	37.00	37.20	37.40
Short Circuit Current (Isc)	[A]	13.65	13.76	13.88
Module Efficiency (ηm)	[%]	20.5	20.7	21.0
Maximum System Voltage	[V]	1500	1500	1500
Series Fuse Maximum Rating	[A]	25	25	25

ELECTRICAL CHARACTERISTICS AT NMOT <sup>4</sup>				
Maximum Power (Pmax)	[W]	298.9	302.7	306.4
Maximum Power Voltage (Vmp)	[V]	28.98	29.13	29.29
Maximum Power Current (Imp)	[A]	10.32	10.39	10.46
Open Circuit Voltage (Voc)	[V]	34.97	35.15	35.34
Short Circuit Current (Isc)	[A]	11.07	11.17	11.26

MECHANICAL CHARACTERISTICS		
Solar cells	monocrystalline [pcs]	108
	Dimensions [mm]	182
Front glass	high-transparency	
	Thickness [mm] / [in]	3.2 / 0.125
Backsheet	White	
Encapsulant	EVA	
Frame	Anodized aluminum alloy	Silver or black
Junction box	Split type, IP68	
	Bypass diodes	3
UV-resistant cables	Length [mm] / [in]	1200 / 47.24
	Section [mm <sup>2</sup> ]	4
Connectors	MC4-compatible	
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]	21.6 / 47.61
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 <sup>2</sup> , 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 <sup>2</sup> , Wind Speed 1m/s, Ambient Temperature 20°C, Air Mass AM=1.5
5-Full text of the Warranty Terms available at: <a href="http://www.aeg-industrialsolar.de">www.aeg-industrialsolar.de</a> . 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 2022.08.01.EN © Solar Solutions GmbH. Specifications in this datasheet are subject to change without notice.
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CERTIFICATIONS		
System	ISO 9001, ISO 14001, ISO 45001	
Product	IEC61215-1:2016, IEC61215-2:2016, IEC61730-1:2016, IEC61730-2:2016, EN61215-1:2016, EN61215-2:2016, EN61730-1:2016, EN61730-2:2016, EN IEC61730-1:2018, EN IEC61730-2:2018	

WARRANTIES		
Product warranty <sup>5</sup>	[years]	15
Performance warranty (linear) <sup>6</sup>	[years]	25

TEMPERATURE CHARACTERISTICS		
NMOT	[°C]	41 (±2)
Pmax Temp. Coefficient (γ)	[%/°C]	-0.35
Voc Temp. Coefficient (β)	[%/°C]	-0.27
Isc Temp. Coefficient (α)	[%/°C]	0.045
Operating temperature	[°C]	-40~+85

