AEG

PHOTOVOLTAIC MODULE AS-M1443 (G1 CELLS)



410 - 420 Wp 144 MONOCRYSTALLINE HALF-CUT CELLS

AEG solar modules combine the most advanced technology with high reliability in manufacture to offer you a product meant for high achievements.



OPTIMIZED DESIGN MAXIMUM EFFICIENCY

AEG solar modules with half-cut cells (G1) and 9 busbar technology are designed to maximize efficiency and plant performance. The 120 cm extra-long cables allow more installation flexibility and comfort.



CAREFUL SELECTION, PREMIUM LOOK

The careful selection of components (cells, backsheet and frames) ensures a premium product look and provides extra aesthetical value.

COMPREHENSIVELY CERTIFIED

AEG solar modules and production facilities are compliant with the the latest standards to guarantee safety and reliability. Production facilities are certified according to ISO 9001, ISO 14001 and OHSAS 18001. AEG solar products are certified among others by:



More information: www.aeg-industrialsolar.de

HIGH EFFICIENCY SERIES



PRODUCT NAMECODE (PNC) AS-M1443-H(G1)-410/415/420, silver frame AS-M1443Z-H(G1)-410/415/420, black frame

EG

AS-M1443 (G1 CELLS)

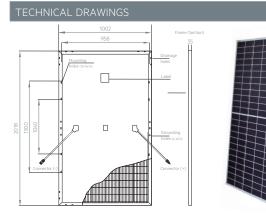
PRODUCT SERIES & NAMECODE (PNC)
AEG HIGH EFFICIENCY SERIES
AS-M1443-H(G1)-410/415/420, silver frame
AS-M1443Z-H(G1)-410/415/420, black frame

ELECTRICAL CHARACTERISTICS AT STC ¹²				
Nominal Power (Pmax)	[Wp]	410	415	420
Power Sorting ³	[Wp]	-0/+5	-0/+5	-0/+5
Maximum Power Voltage (Vmp)	[V]	41.85	42.11	42.35
Maximum Power Current (Imp)	[A]	9.80	9.86	9.92
Open Circuit Voltage (Voc)	[V]	49.80	50.06	50.32
Short Circuit Current (Isc)	[A]	10.38	10.45	10.52
Module Efficiency (η m)	[%]	20.3%	20.5%	20.8%
Maximum System Voltage	[V]	1000	1000	1000
Series Fuse Maximum Rating	[A]	20	20	20

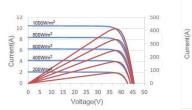
	-			
ELECTRICAL CHARACTERISTICS AT NMOT ^₄				
Maximum Power (Pmax)	[W]	304.8	308.5	312.2
Maximum Power Voltage (Vmp)	[V]	38.84	39.08	39.31
Maximum Power Current (Imp)	[A]	7.85	7.89	7.94
Open Circuit Voltage (Voc)	[V]	46.64	46.88	47.12
Short Circuit Current (Isc)	[A]	8.36	8.42	8.48

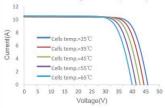
MECHANICAL CHARACTERISTICS			
Solar cells	monocrystalline [pcs]	120	
	Dimensions [mm]	158.75 x 79.3	
Front glass	High-transparency		
	Thickness [mm] / [in]	3.2 / 0.12	
Backsheet	White		
Encapsulant	EVA	Transparent	
Frame	Anodized aluminum alloy	Silver or black	
Junction box	Standard	IP68	
	Bypass diodes	3	
UV-resistant	Length [cm] / [in]	120 / 47.24	
cables	Section [mm2]	4	
Connectors	MC4	compatible	
Dimensions	HxLxW [mm]	2018 x 1002 x 35	
	HxLxW [in]	79.45 x 39.45 x 1.37	
Weight	[kg] / [lbs]	22.6 / 49.82	
Maximum load	Wind / Snow [Pa]	2400 / 5400	

CERTIFICATIO	CERTIFICATIONS			
System	ISO 9001, ISO 14001, OHSAS 18001	IIC 61216		
Product	IEC 61215-1/-2:2016 (EN: 2017)	TÜVRheinland		
	IEC 61730-1/-2:2016 (EN: 2018)	CERTIFIED NWW.Duv.com ID 1111221820		



TEMPERATURE CHARACTERISTICS		
NMOT	[°C]	44± 2
Pmax Temp. Coefficient (γ)	[%/°C]	-0.35
Voc Temp. Coefficient (β)	[%/°C]	-0.28
lsc Temp.Coefficient (a)	[%/°C]	+0.04
Operating temperature	[°C]	-40~+85





WARRANTIES		
Product warranty	[years]	15
Performance warranty (linear) ⁵	[years]	25

PACKAGING		
Packing configuration	[pcs/pallet]	31
Loading capacity	[pcs/40 ft container]	682

+49 (0)69 400500810 | info@aeg-industrialsolar.de www.aeg-industrialsolar.de

- 1-Standard Test Conditions (STC): Irradiance 1000 W/m², Air Mass AM = 15, Cell Temperature 25°C) 2-Measurement tolerances (IEC 612152016). 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