

405- 410 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) technology are designed to maximize efficiency and plant performance. The 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:



www.aeg-industrialsolar.de

HIGH EFFICIENCY SERIES



PRODUCT NAMECODE (PNC)

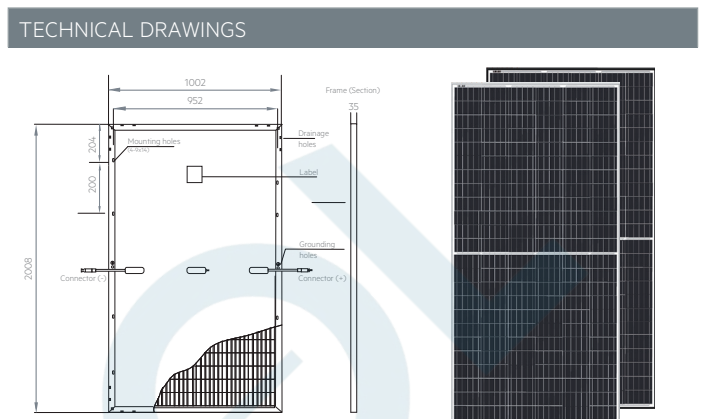
AS-M1442-H(G1)-405/410, silver frame
AS-M1442Z-H(G1)-405/410, black frame

PRODUCT SERIES & NAMECODE (PNC)	
AEG HIGH EFFICIENCY SERIES	
AS-M1442-H(G1)-405/410, silver frame	
AS-M1442Z-H(G1)-405/410, black frame	

CERTIFICATIONS	
System	ISO 9001, ISO 14001, OHSAS 18001
Product	IEC 61215-1/-2:2016, IEC 61215-1-1:2016
	IEC 61730-1:2016, IEC 61730-2:2016



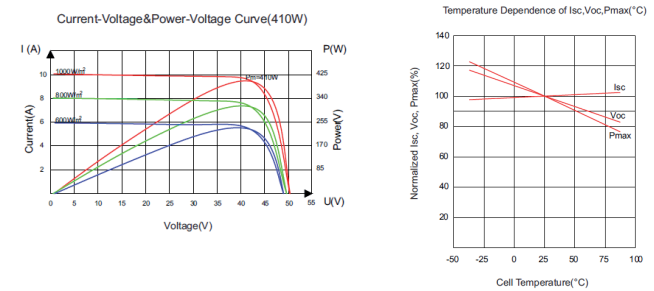
ELECTRICAL CHARACTERISTICS AT STC ^{1,2}			
Nominal Power (Pmax)	[Wp]	405	410
Power Sorting ³	[Wp]	-0/+5	-0/+5
Maximum Power Voltage (Vmp)	[V]	40.79	40.97
Maximum Power Current (Imp)	[A]	9.94	10.02
Open Circuit Voltage (Voc)	[V]	49.99	50.16
Short Circuit Current (Isc)	[A]	10.35	10.43
Module Efficiency (ηm)	[%]	20.13	20.38
Maximum System Voltage	[V]	1000	1000
Series Fuse Maximum Rating	[A]	20	20



MECHANICAL CHARACTERISTICS		
Solar cells	monocrystalline [pcs]	144
	Dimensions [mm]	G1 Half-cut [158.75 x 79.37]
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	Split-type
UV-resistant cables	Length [mm] / [in]	1300 / 51.18
	Section [mm ²]	4
Connectors	MC4	original
Dimensions	H x L x W [mm]	2008 x 1002 x 35
	H x L x W [in]	79.06 x 39.45 x 1.38
Weight	[kg] / [lbs]	22.6 / 49.81
Maximum load	Wind / Snow [Pa]	2400 / 5400

TEMPERATURE CHARACTERISTICS		
NMOT	[°C]	42 ±3
Pmax Temp. Coefficient (γ)	[%/°C]	-0.365
Voc Temp. Coefficient (β)	[%/°C]	-0.270
Isc Temp. Coefficient (α)	[%/°C]	+0.038
Operating temperature	[°C]	-40~+85

I/V CURVES - IRRADIANCES



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

WARRANTIES		
Product warranty	[years]	15 (opt. ext. to 20)
Performance warranty (linear) ⁵	[years]	25

CONTACT US

Distributor

SOLSOL s.r.o.

Králova 298/4, Brno 616 00 Česká republika

+42 0 773 576 737 | sales@solsol.cz |

solsol.cz

1-Standard Test Conditions (STC): Irradiance 1000 W/m², Air Mass AM = 1.5, Cell Temperature 25°C

2-Measurement tolerances (IEC 61215:2016): Pmax=±3%, Voc=±3%, 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-NMOT: Nominal operating temperature of module, Irradiance 800 W/m², Wind Speed 1m/s, Ambient Temperature 20°C, Air Mass AM=1.5

5-(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. Full text of the Warranty Terms available at: www.aeg-industrialsolar.de

6-Dimensions in the technical picture are expressed in mm with tolerance ±2 mm (±0.079")

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