

PHOTOVOLTAIC MODULE AS-M1443 (M6 cells)



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:







YOUR ADVANTAGE AT A GLANCE

Premium solar panel with quality components High efficiency - up to 455 Wp Product certified IEC 61215:2016, IEC 61730:2016 12 years Product warranty 25 years linear Power warranty



PHOTOVOLTAIC MODULE AS-M1443-H (M6 cells)



ELECTRICAL CHARACTER	RISTICS AT STC ¹	AS-M1443-H-445	AS-M1443-H-450	AS-M1443-H-455	
Nominal Power (Pmax)	[Wp]	445	450	455	
Power Sorting ²	[Wp]	-0 / +5	-0 / +5	-0 / +5	
Maximum Power Voltage (Vmp)	[V]	41.05	41.32	41.51	
Maximum Power Current (Imp)	[A]	10.84	10.89	10.96	
Open Circuit Voltage (Voc)	[V]	48.80	49.05	49.35	
Short Circuit Current (Isc)	[A]	11.30	11.37	11.44	
Module Efficiency (η m)		20.1%	20.4%	20.6%	
Maximum System Voltage	[V]	1000	1000	1000	
Series Fuse Maximum Rating	[A]	20	20	20	
ELECTRICAL CHARACTER	RISTICS NMOT ³				
Maximum Power (Pmax)	[W]	330.8	334.5	338.2	
Maximum Power Voltage (Vmp)	[V]	38.12	38.37	38.55	
Maximum Power Current (Imp)	[A]	8.68	8.72	8.78	
Open Circuit Voltage (Voc)	[V]	45.70	45.94	46.22	
Short Circuit Current (Isc)	[A]	9.10	9.16	9.22	

MECHANICAL CHARACTERISTICS

Solar cells 144 [(6 \times 12) \times 2] monocrystalline silicon, 166 \times 83 mm (M6) half-cut cells

Front glass 3.2 mm (0.12") high-transparency glass

Backsheet White backsheet

Encapsulant EVA (Ethylene-Vinyl Acetate)

Frame Anodized aluminum alloy, silver or black color ("zebra")

IP68, 3 bypass diodes Junction box

UV resistant cable 130 cm (51.1"), sec.4.0 mm² Cables

Connectors MC4 compatible connectors

Dimensions 2108 mm x 1048 mm x 35 mm (83" x 41.25" x 1.38")

24 kg (52.9 lbs) Weight

Wind: 2400 Pa / Snow: 5400 Pa Maximum load

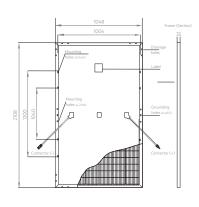
TEMPERATURE CHARACTERISTICS

NOCT	44°C ± 2°C
Pmax Temp. Coefficient (γ)	-0.35 %/C
Voc Temp. Coefficient ($oldsymbol{eta}$)	-0.28 %/C
Isc Temp.Coefficient ($lpha$)	0.04 %/C
Operating temperature	-40°C to + 85°C

PACKING CONFIGURATION

Packing configuration	31 pcs / pallet
Loading capacity	791 pcs / 40 ft container

TECHNICAL DRAWINGS





- Module dimensions in the technical picture are expressed in mm with tolerance ×2 mm (±0.079 °)

 1- Standard Tear Conditions STC) tradiance 1000 Winf. Air Mass A4 15, Cell Temperature 25°C), Tolerance on Pmax ± 3%, Tolerance on Vox ± 3%, Tolerance on lox ± 5%,
 2-AEG photovoltain modules are classified according to a principle of positive yeaver tolerance the Power Output measured at 5TC of the delivered modules exceeds their assignment.
- 2-ALED protocontac modules are classified according to a principle of positive power tolerance. The rewest Juriput measured at 5 Li, O fine delivere within a power tolerance range between 6-Vily and 15 Wp.

 3- Nominal Module Operating Temperature (NMOT) Irradiance 800 W/m², Wind Speed Im/s, Ambient Temperature 20°C, Air Mass AM+15)

 4- No less than 97% of the minimum "Peak Power at STC" in the first year; power output decline no more than 07% per year thereafter). Full text of 0.5 Solar Solutions Windows Specifications in this dataselver as bublect to change without notice. Code AS-M1443-H-KMON1-988-346-355 / version AEG is a registered trademark used under license from AB Electrolux (publ.).

WARRANTIES

Product warranty 12 years Performance warranty 25 years, linear 4

I-V CURVES / IRRADIANCES

