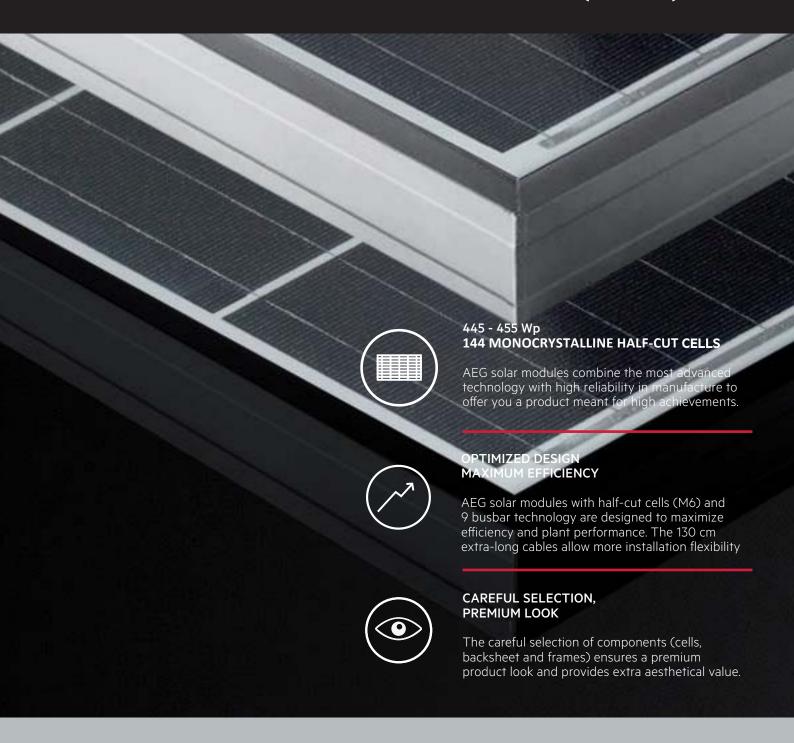


# PHOTOVOLTAIC MODULE AS-M1443 (M6 cells)



#### **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 eff iciency - up to 455 Wp Product certified IEC 61215:2016, IEC 61730:2016 15 years Product warranty 25 years linear Power warranty



# PHOTOVOLTAIC MODULE AS-M1443-H (M6 cells)



ELECTRICAL CHARACTER	RISTICS AT STC <sup>1</sup>	AS-M1443-H-445	AS-M1443-H-450	AS-M1443-H-455	
Nominal Power (Pmax)	[Wp]	445	450	455	
Power Sorting <sup>2</sup>	[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 ( <b>η</b> 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 <sup>3</sup>				
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 mm<sup>2</sup> 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 $(\gamma)$	-0.35 %/C
Voc Temp. Coefficient $(\beta)$	-0.28 %/C
Isc Temp.Coefficient (α)	0.04 %/C
Operating temperature	-40°C to + 85°C

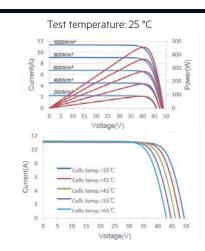
#### PACKING CONFIGURATION

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

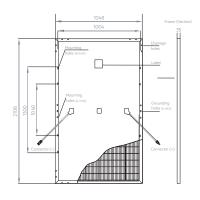
#### WARRANTIES

Product warranty 15years Performance warranty 25 years, linear 4

#### **I-V CURVES / IRRADIANCES**



## **TECHNICAL DRAWINGS**





Module dimensions in the technical picture are expressed in mm with tolerance = 2 mm (+0.07° 0")

1 - Standard Test Conditions (STC) Irradiance (DOO With", Air Hass AM+ 15, Cell Temperature 25°C), Tolerance on Pmax = 3%, Tolerance on Noc = 3%, Tolerance on Isc = 5%

2-AEG photovolatic modules are classified according to a principle of positive power forleance: the Power Output measured at STC of the delivered modules exceeds their assi

2-Acts protovoints modules are classified accoung to a principle of postive power tolerance; the rower curput measured at 5 Li C of the eleviere within a power tolerance range between -0 Wip and +5 Wig.
3- Nominal Module Operating Temperature (NMOT) tradiance 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 5°C in the first year power output decline no more than 07% per year thereafter). Full text of 0. Solar Solutions of bindly Expeditions in this datasheet are subject to change without notice. Code: AS-M1443-H-KMON1-98B-345-355 / version AEG is a registered trademark used under license from AB Electrolux (publ).