



380 - 390 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 cell technology are designed to minimize cell-to-module power losses, boosting the performances of your installation. The 120 cm extra-long cables allow more installation flexibility and comfort.



FULL BLACK, 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:



YOUR ADVANTAGE AT A GLANCE

Premium solar panel with quality components
High efficiency - up to 390 Wp
Product certified IEC 61215:2016, IEC 61730:2016
15 years Product warranty*
25 years linear Power warranty



ELECTRICAL CHARACTERISTICS AT STC¹

		AS-M1449-H-380	AS-M1449-H-385	AS-M1449-H-390
Nominal Power (Pmax)	[Wp]	380	385	390
Power Sorting ²	[Wp]	-0 / +5	-0 / +5	-0 / +5
Maximum Power Voltage (Vmp)	[V]	39.41	39.44	39.55
Maximum Power Current (Imp)	[A]	9.66	9.78	9.89
Open Circuit Voltage (Voc)	[V]	47.51	47.61	47.71
Short Circuit Current (Isc)	[A]	10.21	10.36	10.46
Module Efficiency (ηm)		18.82%	19.07%	19.32%
Maximum System Voltage	[V]	1000	1000	1000
Series Fuse Maximum Rating	[A]	15	15	15

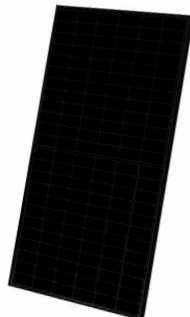
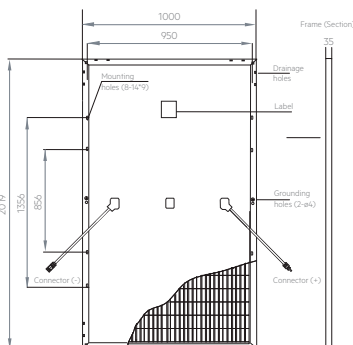
ELECTRICAL CHARACTERISTICS NOCT³

		AS-M1449-H-380	AS-M1449-H-385	AS-M1449-H-390
Maximum Power (Pmax)	[W]	279	283	287
Maximum Power Voltage (Vmp)	[V]	36.14	36.15	36.24
Maximum Power Current (Imp)	[A]	7.73	7.83	7.91
Open Circuit Voltage (Voc)	[V]	43.95	44.04	44.13
Short Circuit Current (Isc)	[A]	8.23	8.35	8.43

MECHANICAL CHARACTERISTICS

Solar cells	144 [(6 x 12) x 2] monocrystalline silicon, 158.75 x 79.375 mm half-cut cells
Front glass	3.2 mm (0.12") high-transparency AR coating glass
Backsheet	Black backsheet
Encapsulant	EVA (Ethylene-Vinyl Acetate)
Frame	Anodized aluminum alloy, black colour
Junction box	IP67 / IP68 rated
Cables	UV resistant cable, 120 cm (47.2"), sec.4.0 mm ²
Connectors	MC4 compatible connectors
Dimensions	2019 mm x 1000 mm x 35 mm (79.4" x 39.4" x 1.37")
Weight	22.7 kg (50 lbs)
Maximum load	Wind: 2400 Pa / Snow: 5400 Pa

TECHNICAL DRAWINGS



Module dimensions in the technical picture are expressed in mm with tolerance ±2 mm (+0/0.75°)

*and ** - These Limited Warranty Terms apply for SOLSOL s.r.o. customers only.

1 - Standard Test Conditions (STC): Irradiance 1000 W/m², Air Mass AM = 1.5, Cell Temperature 25°C; Tolerance on Pmax ± 3%; Tolerance on Voc ± 3%; Tolerance on Isc ± 3%

2 - 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 at STC within a power tolerance range between -0 Wp and +5 Wp.

3 - Normal Operating Cell Temperature (NOCT): Irradiance 800 W/m²; Wind Speed 1m/s; Ambient Temperature 20°C; Power measurement uncertainty within ± 3%

4 - No less than 97% of the minimum "Peak Power at STC" in the first year; power output decline no more than 0.7% per year thereafter.

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TEMPERATURE CHARACTERISTICS

NOCT	44°C ± 2°C
Pmax Temp. Coefficient (γ)	-0.39 %/°C
Voc Temp. Coefficient (β)	-0.30 %/°C
Isc Temp. Coefficient (α)	0.06 %/°C
Operating temperature	-40°C to + 85°C

PACKING CONFIGURATION

Packing configuration	31 pcs / pallet
Loading capacity	682 pcs / 40 ft HC

WARRANTIES

Product warranty	15 years**
Performance warranty	25 years, linear ⁴

I-V CURVES / IRRADIANCES

