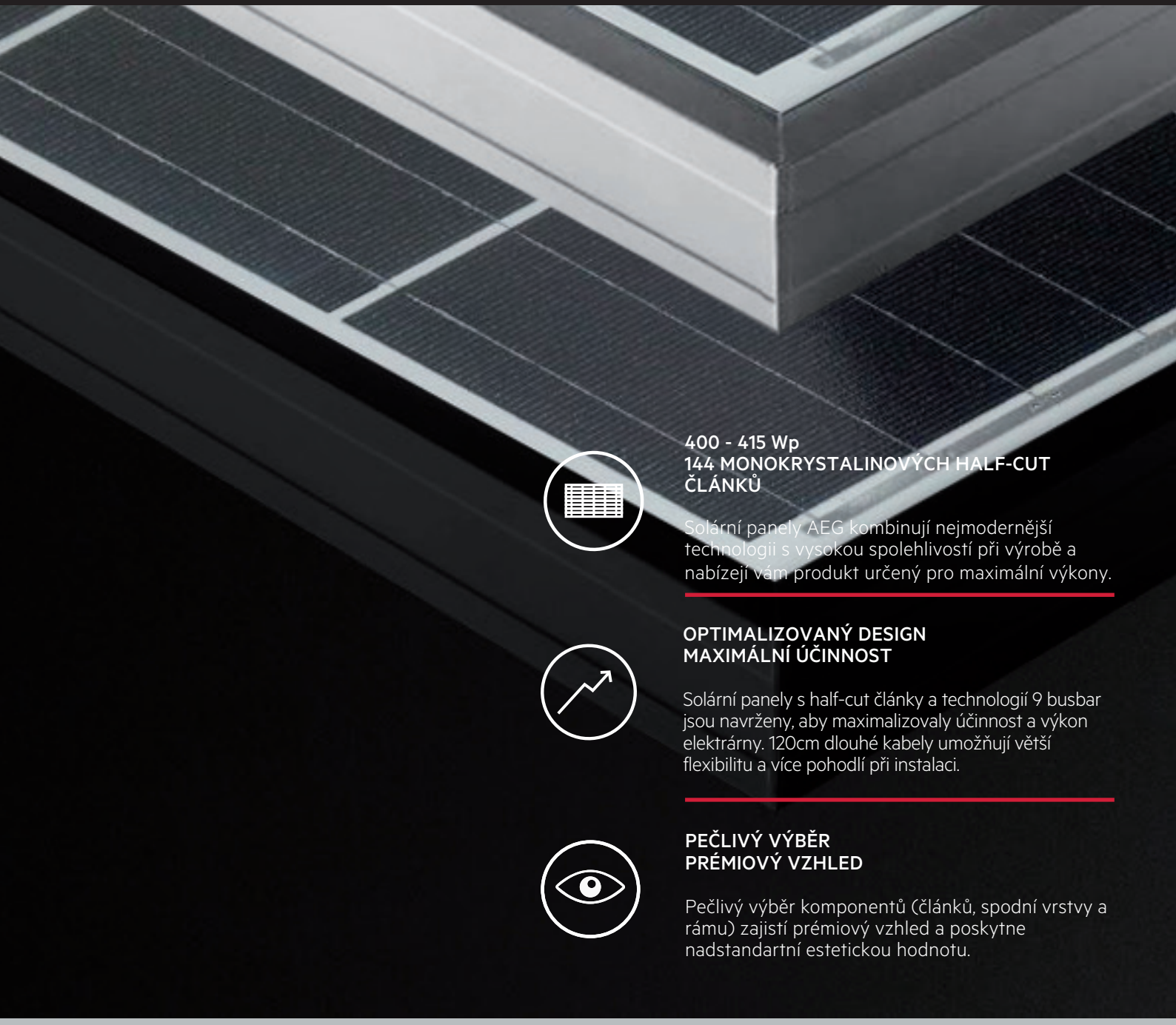
AEG

FOTOVOLTAICKÝ PANEL
AS-M1443



400 - 415 Wp
144 MONOKRYSTALINOVÝCH HALF-CUT ČLÁNKŮ

Solární panely AEG kombinují nejmodernější technologii s vysokou spolehlivostí při výrobě a nabízejí vám produkt určený pro maximální výkony.

OPTIMALIZOVANÝ DESIGN
MAXIMÁLNÍ ÚČINNOST

Solární panely s half-cut články a technologií 9 busbar jsou navrženy, aby maximalizovaly účinnost a výkon elektrárny. 120cm dlouhé kabely umožňují větší flexibilitu a více pohodlí při instalaci.

PEČLIVÝ VÝBĚR
PRÉMIOVÝ VZHLED

Pečlivý výběr komponentů (článků, spodní vrstvy a rámu) zajistí prémiový vzhled a poskytne nadstandartní estetickou hodnotu.

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 415 Wp
Product certified IEC 61215:2016, IEC 61730:2016
15 years Product warranty
25 years linear Power warranty

www.aeg-industrialsolar.de

PHOTOVOLTAIC MODULE AS-M1443-H

ELECTRICAL CHARACTERISTICS AT STC[1]

		AS-M1443-H-400	AS-M1443-H-405	AS-M1443-H-410	AS-M1443-H-415
Nominal Power (Pmax)	[Wp]	400	405	410	415
Power Sorting[2]	[Wp]	-0 / +5	-0 / +5	-0 / +5	-0 / +5
Maximum Power Voltage (Vmp)	[V]	41.32	41.59	41.85	42.11
Maximum Power Current (Imp)	[A]	9.68	9.74	9.80	9.86
Open Circuit Voltage (Voc)	[V]	49.25	49.53	49.80	50.06
Short Circuit Current (Isc)	[A]	10.24	10.31	10.38	10.45
Module Efficiency (ηm)		19.8%	20.0%	20.3%	20.5%
Maximum System Voltage	[V]	1000	1000	1000	1000
Series Fuse Maximum Rating	[A]	20	20	20	20

ELECTRICAL CHARACTERISTICS NMOT[3]

Maximum Power (Pmax)	[W]	297.4	301.1	304.8	308.5
Maximum Power Voltage (Vmp)	[V]	38.37	38.61	38.84	39.08
Maximum Power Current (Imp)	[A]	7.75	7.80	7.85	7.89
Open Circuit Voltage (Voc)	[V]	46.12	46.38	46.64	46.88
Short Circuit Current (Isc)	[A]	8.25	8.31	8.36	8.42

MECHANICAL CHARACTERISTICS

Solar cells	144 [(6 x 12) x 2] monocrystalline silicon, 158.75 x 79.3 mm half-cut cells
Front glass	3.2 mm (0.13“) high-transparency AR coating glass
Backsheet	White backsheet
Encapsulant	EVA (Ethylene-Vinyl Acetate)
Frame	Anodized aluminum alloy, silver or black color („zebra“)
Junction box	IP67
Cables	UV resistant cable 120 cm (47.24“), sec.4.0 mm^2
Connectors	MC4 compatible connectors
Dimensions	2018 mm x 1002 mm x 35 mm (79.45“ x 39.45“ x 1.37 “)
Weight	22.6 kg (49,82 bs)
Maximum load	Wind: 2400 Pa / Snow: 5400 Pa

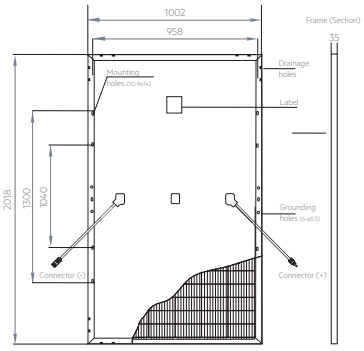
TEMPERATURE CHARACTERISTICS

NOCT	44°C ± 2°C
Pmax Temp. Coefficient (γ)	-0.35 %/C
Voc Temp. Coefficient (β)	-0.28 %/C
Isc Temp.Coefficient (α)	0.040 %/C
Operating temperature	-40°C to + 85°C

PACKING CONFIGURATION

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

TECHNICAL DRAWINGS

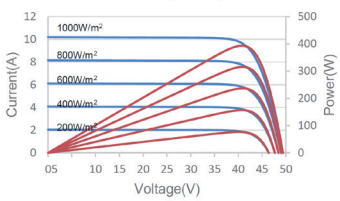


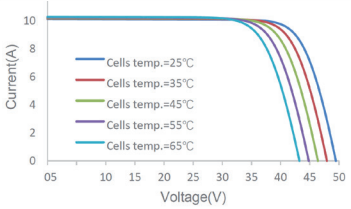
WARRANTIES

Product warranty	15 years
Performance warranty	25 years, linear [4]

I-V CURVES / IRRADIANCES

Test temperature: 25 °C





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

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 ± 5%

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 - Nominal Module Operating| Temperature (NMOT): Irradiance 800 W/m², Wind Speed 1m/s; Ambient Temperature 20°C, Air Mass AM=1.5)

4 - 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

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