AEG

PHOTOVOLTAIC MODULE
AS-M3407U-S (M6 CELLS)

400 - 410 Wp
340 SHINGLED CELLS

AEG solar modules combine the most advanced technology with high reliability in manufacture to offer you a product meant for high achievements

SHINGLE TECHNOLOGY FOR MAXIMUM EFFICIENCY

The shingle technology used in AEG solar modules covers larger portions of the module with cells, eliminating the need for interconnecting ribbons and reducing resistive losses. This in turns maximizes power output and module efficiency

ULTRA BLACK, ULTRA PREMIUM

The premium selection of components grants the AEG Ultra Black modules a ‚total look' with superior aesthetics and product quality, covered by 15 years warranty on the product and 25 years warranty on performance. For extra peace of mind, product warranty can optionally be extended to 20 years.

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 ISO 45001. AEG solar products are certified among others by:

www.aeg-industrialsolar.de

PREMIUM SERIES

PRODUCT NAMECODE (PNC)
AS-M3407U-S(M6)-400/405/410/HV
black frame, black backsheet, black wiring

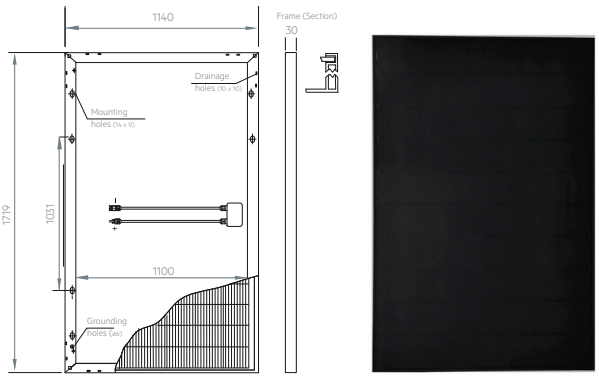
AS-M3407U-S (M6 CELLS)

PRODUCT SERIES & NAMECODE (PNC)
AEG PREMIUM SERIES
AS-M3407U-S(M6)-400/405/410/HV
(black frame, black backsheet, black ribbons)

CERTIFICATIONS	
System	ISO 9001, ISO 14001, ISO 45001
Product	IEC/EN 61215-1:2016; IEC/EN 61215-1-1:2016; IEC 61215-2:2016 / EN 61215-2:2017 + AC:2017 + AC:2018; IEC 61730-1:2016 / EN IEC 61730-1:2018 + AC:2018; IEC 61730-2:2016 / EN IEC 31730-2:2018 + AC:2018

ELECTRICAL CHARACTERISTICS AT STC[1,2]				
Nominal Power (Pmax)	[Wp]	400	405	410
Power Sorting[3]	[Wp]	-0/+5	-0/+5	-0/+5
Maximum Power Voltage (Vmp)	[V]	38.6	38.7	38.8
Maximum Power Current (Imp)	[A]	10.36	10.47	10.57
Open Circuit Voltage (Voc)	[V]	46.4	46.5	46.6
Short Circuit Current (Isc)	[A]	10.97	11.02	11.07
Module Efficiency (ηm)	[%]	20.4	20.7	20.9
Maximum System Voltage	[V]	1500	1500	1500
Series Fuse Maximum Rating	[A]	20	20	20

TECHNICAL DRAWINGS

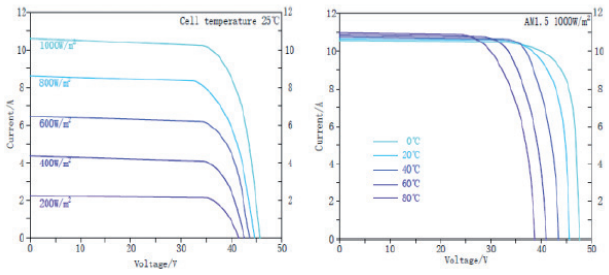


ELECTRICAL CHARACTERISTICS AT NMOT[4]				
Maximum Power (Pmax)	[W]	301	305	309
Maximum Power Voltage (Vmp)	[V]	36,8	36.9	37
Maximum Power Current (Imp)	[A]	8,18	8.27	8.35
Open Circuit Voltage (Voc)	[V]	44,2	44.3	44.4
Short Circuit Current (Isc)	[A]	8,85	8.89	8.93

TEMPERATURE CHARACTERISTICS		
NMOT	[°C]	42.3±2
Pmax Temp. Coefficient (γ)	[%/°C]	-0.34
Voc Temp. Coefficient (β)	[%/°C]	-0.27
Isc Temp.Coefficient (α)	[%/°C]	0.04
Operating temperature	[°C]	-40~+85

MECHANICAL CHARACTERISTICS		
Solar cells	monocrystalline [pcs]	340
	Dimensions [mm]	5 shingles based on M6 cells
Front glass	high-transparency	Transparent
	Thickness [mm] / [in]	3.2 / 0.126
Backsheet	Black	
Encapsulant	EVA	Transparent
Frame	Anodized aluminum alloy	Black
Junction box	Standard	
	Bypass diodes	2
UV-resistant cables	Length [mm] / [in]	1400 / 55.12
	Section [mm²]	4
Connectors	MC4	compatible
Dimensions	H x L x W [mm]	1719 x 1140 x 30
	H x L x W [in]	67.68 x 44.89 x 1.18
Weight	[kg] / [lbs]	21
Maximum load	Wind / Snow [Pa]	5400
Fire Class	C	

I/V CURVES - IRRADIANCES



PACKAGING		
Packing configuration	[pcs/pallet]	36
Loading capacity	[pcs/40 ft container]	936

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

CONTACT US

Solar Solutions GmbH

Brückenstrasse 94, 60594 Frankfurt am Main, Germany

+49 (0)69 400500810 | info@aeg-industrialsolar.de

www.aeg-industrialsolar.de

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±3%

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-(PRE/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 ending with 84.4%. 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 ") Version 2022.03V1.EN

© Solar Solutions GmbH. Specifications in this datasheet are subject to change without notice. The Extended Warranty is a separate offer. If not offered by your distributor, the standard warranty conditions apply.

AEG is a registered trademark used under license from AB Electrolux (publ).