

AEG

AEG HIGH EFFICIENCY SERIES

AS-M3407-S(M6) / SHINGLED PHOTOVOLTAIC MODULE

CHARACTERISTICS



Power range: 400-410 Wp
Shingled-cell technology
Suitable for: residential / commercial installations

PRODUCT NAME CODE (PNC)



AS-M3407-S(M6)-400/405/410/HV
(white backsheet, silver frame)
AS-M3407Z-S(M6)-400/405/410/HV
(white backsheet, black frame)

EXTRA PEACE OF MIND



Extensive certifications and rigorous Quality Control
15 years product warranty
25 years performance warranty

ADVANTAGES



More converting surface, more energy outputs
Outstanding sleek optics
Extra long cables for greater installation flexibility

AS-M3407-S(M6) / SHINGLED PHOTOVOLTAIC MODULE

PRODUCT SERIES & NAMECODE (PNC)

AEG HIGH EFFICIENCY SERIES
AS-M3407-S(M6)-400/405/410/HV silver frame, white backsheet
AS-M3407Z-S(M6)-400/405/410/HV black frame, white backsheet

ELECTRICAL CHARACTERISTICS AT STC^{1,2}

	[Wp]	400	405	410
Nominal Power (Pmax)	[Wp]	400	405	410
Power Sorting ³	[W]	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

ELECTRICAL CHARACTERISTICS AT NMOT⁴

	[W]	301	305	309
Maximum Power (Pmax)	[W]	301	305	309
Maximum Power Voltage (Vmp)	[V]	36.8	36.9	37.0
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

MECHANICAL CHARACTERISTICS

Solar cells	monocrystalline [pcs]	340
	Dimensions [mm]	M6-based shingles
Front glass	high-transparency	
	Thickness [mm] / [in]	3.2 / 0.126
Backsheet	White	
Encapsulant	EVA	
Frame	Anodized aluminum alloy	silver or black
Junction box	Standard, IP 68	
	Bypass diodes	2
UV-resistant cables	Length [mm] / [in]	1400 / 55.12
	Section [mm ²]	4
Connectors	MC4	
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]	21.0 / 46.2
Maximum load	Wind / Snow [Pa]	2400 / 5400
Fire Class	Class C	

PACKAGING

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

NOTES

1-Standard Test Conditions (STC): Irradiance 1000 W/m ² , 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/m ² , Wind Speed 1m/s; Ambient Temperature 20°C, Air Mass AM=1.5
5-Full text of the Warranty Terms available at: www.aeg-industrialsolar.de . The Extended Warranty is a separate offer. If not offered by your distributor, the standard warranty conditions apply.
6-(HE)/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 84.8%.
Dimensions in the technical picture are expressed in mm with tolerance ±2mm (+0.079") / Version 2022.11.V1EN © Solar Solutions Group. Specifications in this datasheet are subject to change without notice.
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CERTIFICATIONS

System	ISO 9001, ISO 14001, ISO 45001
Product	IEC/EN 61215 (-1, 1-1: 2016); IEC 61215 -22016, EN 61215 -22017+AC2017+AC2018; IEC 61730 (-1, -22016); EN 61730-1/-22018+AC 2018

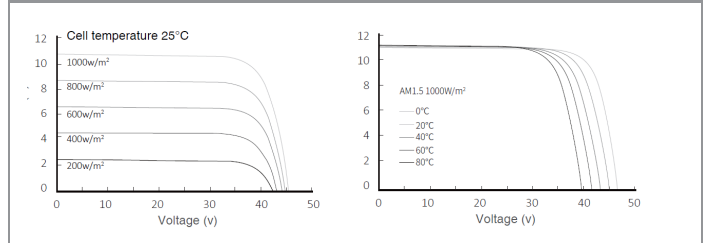
WARRANTIES

Product warranty ⁵	[years]	15 (opt. ext. to 20)
Performance warranty (linear) ⁶	[years]	25

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

I/V CURVES - IRRADIANCES



TECHNICAL DRAWINGS

