

AEG

AEG SOLAR MODULES



360° ENERGY SOLUTIONS FOR YOUR HOME

INTERSOLAR EUROPE 2022

AEG PREMIUM SERIES

AS-M3407U-S(M6) / ULTRA BLACK M6 SHINGLE MODULE (400-410 Wp)

AS-M3207U-S(G12) /ULTRA BLACK G12 SHINGLE MODULE (430-435 Wp)

AEG HIGH EFFICIENCY SERIES

AS-M3207-S(G12) /G12 SHINGLE MODULE (430-440 Wp)

AS-M3457-S(G12) /G12 SHINGLE MODULE (540-550 Wp)

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AEG PREMIUM SERIES

AS-M3407U-S(M6) / ULTRA BLACK SHINGLED PHOTOVOLTAIC MODULE

Characteristics



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

Product Name Code (PNC)



AS-M3407U-S(M6)-400/405/410/HV
(black 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 (Ultra Black)
Extra long cables for greater installation flexibility

AS-M3407U-S(M6) / ULTRA BLACK SHINGLED PHOTOVOLTAIC MODULE

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

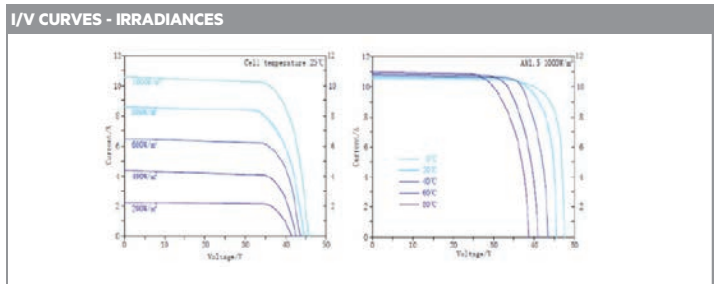
CERTIFICATIONS	
System	ISO 9001, ISO 14001, ISO 45001
Product	IEC/EN 61215 (-1, 1-1: 2016); IEC 61215 -2:2016, EN 61215 -2:2017+AC2017+AC2018; IEC 61730 (-1, -2:2016); EN 61730-1/-2:2018+AC 2018

ELECTRICAL CHARACTERISTICS AT STC ^{1,2}				
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

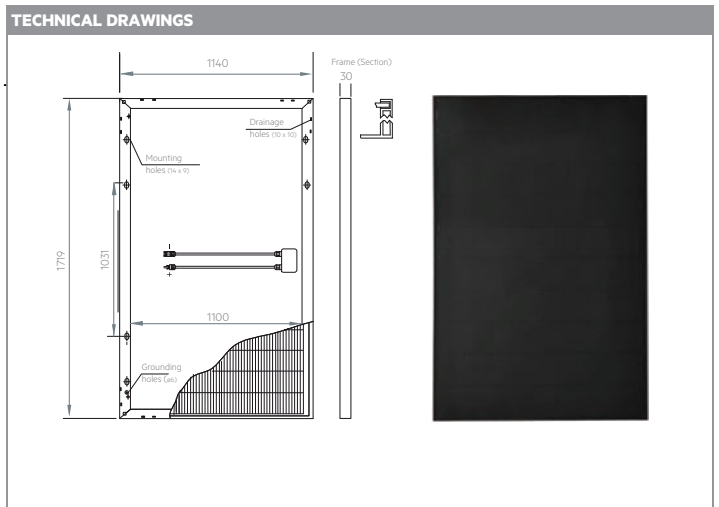
WARRANTIES		
Product warranty ⁵	[years]	15 (opt. ext. to 20)
Performance warranty (linear) ⁶	[years]	25

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

ELECTRICAL CHARACTERISTICS AT NMOT ⁴				
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	Black	
Encapsulant	EVA	
Frame	Anodized aluminum alloy	black
	Standard	
Junction box	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%.
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CONTACT US

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AEG PREMIUM SERIES

AS-M3207U-S(G12) / ULTRA BLACK SHINGLED PHOTOVOLTAIC MODULE

Characteristics



Power range: 430-435 Wp
Shingled-cell technology
Suitable for: residential / commercial installations

Product Name Code (PNC)



AS-M3207U-S(G12)-430/435/HV
(black backsheets, black frame, black wiring)

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-M3207U-S(G12) / ULTRA BLACK SHINGLED PHOTOVOLTAIC MODULE

PRODUCT SERIES & NAMECODE (PNC)	
AEG PREMIUM SERIES	
AS-M3207U-S(G12)-430/435/HV	
black frame, black backsheet, black wiring	

ELECTRICAL CHARACTERISTICS AT STC ^{1,2}			
Nominal Power (Pmax)	[Wp]	430	435
Power Sorting ³	[W]	0-5	0-5
Maximum Power Voltage (Vmp)	[V]	36.1	36.2
Maximum Power Current (Imp)	[A]	11.92	12.02
Open Circuit Voltage (Voc)	[V]	43.5	43.6
Short Circuit Current (Isc)	[A]	12.68	12.79
Module Efficiency (ηm)	[%]	20.7	20.9
Maximum System Voltage	[V]	1500	1500
Series Fuse Maximum Rating	[A]	25	25

ELECTRICAL CHARACTERISTICS AT NMOT ⁴			
Maximum Power (Pmax)	[W]	324	328
Maximum Power Voltage (Vmp)	[V]	34.4	34.5
Maximum Power Current (Imp)	[A]	9.41	9.49
Open Circuit Voltage (Voc)	[V]	41.5	41.6
Short Circuit Current (Isc)	[A]	10.23	10.32

MECHANICAL CHARACTERISTICS		
Solar cells	monocrystalline [pcs]	320
	Dimensions [mm]	G12-based shingles
Front glass	high-transparency	
	Thickness [mm] / [in]	3.2 / 0.126
Backsheet	Black	
Encapsulant	EVA	
Frame	Anodized aluminum alloy	Black
Junction box	Split-type	
	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]	1899 x 1096 x 30
	H x L x W [in]	74.76 x 43.15 x 1.18
Weight	[kg] / [lbs]	21.8 / 48.04
Maximum load	Wind / Snow [Pa]	2400 / 5400
Fire Class	Class C	

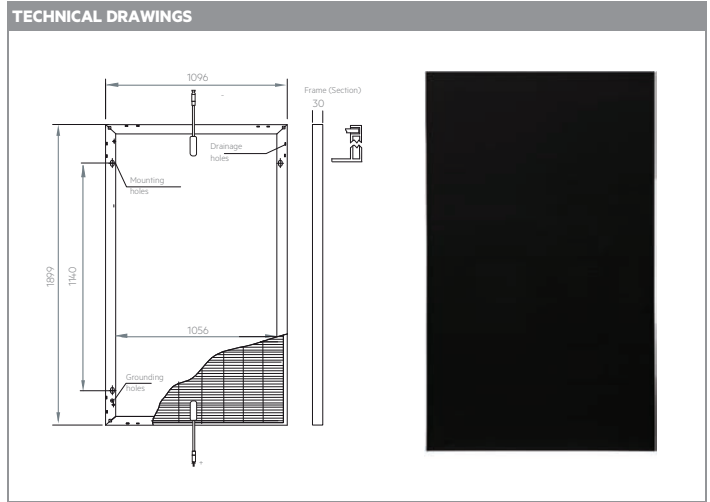
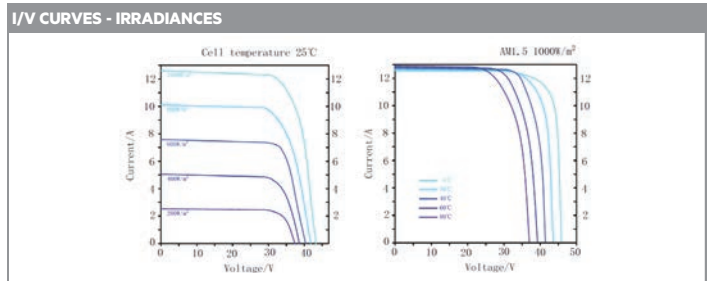
PACKAGING		
Packing configuration	[pcs/pallet]	36
Loading capacity	[pcs/40 ft container]	864

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-(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 84.8%.	
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CERTIFICATIONS	
System	ISO 9001, ISO 14001, ISO 45001
Product	IEC/EN 61215 (-1, 1-1: 2016); IEC 61215 -2:2016, EN 61215 -2:2017 + AC2017 + AC2018; IEC 61730 (-1, -2:2016); EN 61730 -1/-2:2018 + 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





AEG HIGH EFFICIENCY SERIES

AS-M3207-S(G12) / SHINGLED PHOTOVOLTAIC MODULE

Characteristics



Power range: 430-440 Wp
Shingled-cell technology
Suitable for: residential / commercial installations

Product Name Code (PNC)



AS-M3207-S(G12)-430/435/440/HV
(white backsheet, silver frame)
AS-M3207Z-S(G12)-430/435/440/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-M3207-S(G12) / SHINGLED PHOTOVOLTAIC MODULE

PRODUCT SERIES & NAMECODE (PNC)	
AEG HIGH EFFICIENCY SERIES	
AS-M3207-S(G12)-430/435/440/HV, silver frame	
AS-M3207Z-S(G12)-430/435/440/HV, black frame	

ELECTRICAL CHARACTERISTICS AT STC ^{1,2}				
Nominal Power (Pmax)	[Wp]	430	435	440
Power Sorting ³	[W]	0-5	0-5	0-5
Maximum Power Voltage (Vmp)	[V]	36.1	36.2	36.3
Maximum Power Current (Imp)	[A]	11.92	12.02	12.13
Open Circuit Voltage (Voc)	[V]	43.5	43.6	43.7
Short Circuit Current (Isc)	[A]	12.68	12.79	12.90
Module Efficiency (ηm)	[%]	20.7	20.9	21.1
Maximum System Voltage	[V]	1500	1500	1500
Series Fuse Maximum Rating	[A]	25	25	25

ELECTRICAL CHARACTERISTICS AT NMOT ⁴				
Maximum Power (Pmax)	[W]	324	328	331
Maximum Power Voltage (Vmp)	[V]	34.4	34.5	34.6
Maximum Power Current (Imp)	[A]	9.41	9.49	9.57
Open Circuit Voltage (Voc)	[V]	41.5	41.6	41.7
Short Circuit Current (Isc)	[A]	10.23	10.32	10.41

MECHANICAL CHARACTERISTICS		
Solar cells	monocrystalline [pcs]	320
	Dimensions [mm]	G12-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	Split-type	
	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]	1899 x 1096 x 30
	H x L x W [in]	74.76 x 43.15 x 1.18
Weight	[kg] / [lbs]	21.8 / 48.04
Maximum load	Wind / Snow [Pa]	2400 / 5400
Fire Class	Class C	

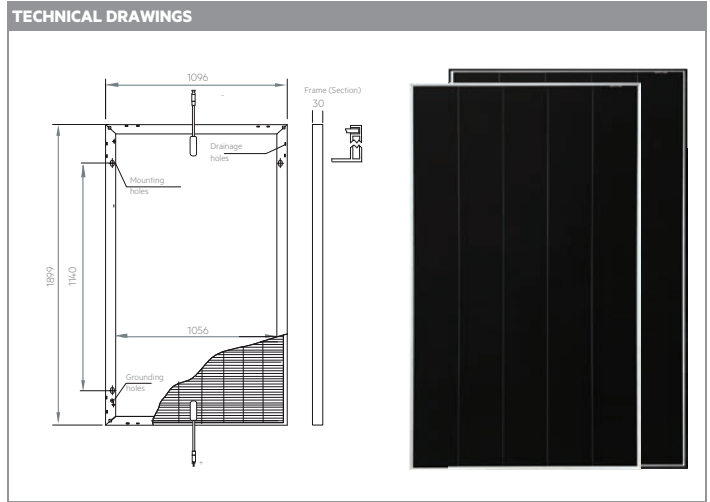
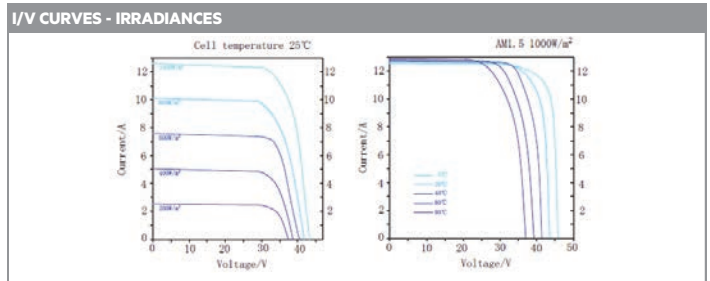
PACKAGING		
Packing configuration	[pcs/pallet]	36
Loading capacity	[pcs/40 ft container]	864

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%.	
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CERTIFICATIONS		
System	ISO 9001, ISO 14001, ISO 45001	
Product	IEC/EN 61215 (-1,-1,-1: 2016); IEC 61215 -2:2016, EN 61215 -2:2017 + AC2017 + AC2018; IEC 61730 (-1, -2:2016); EN 61730 -1/-2:2018 + 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





AEG HIGH EFFICIENCY SERIES

AS-M3457-S(G12) / SHINGLED PHOTOVOLTAIC MODULE

Characteristics



Power range: 540-550 Wp
Shingled-cell technology
Suitable for: residential / commercial installations

Extra peace of mind



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

Product Name Code (PNC)



AS-M3457-S(G12)-540/545/550/HV
(white backsheet, silver frame)

Advantages



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

AS-M3457-S(G12) / SHINGLED PHOTOVOLTAIC MODULE

PRODUCT SERIES & NAMECODE (PNC)	
AEG HIGH EFFICIENCY SERIES	
AS-M3457-S(G12)-540/545/550/HV	
silver frame	

ELECTRICAL CHARACTERISTICS AT STC ^{1,2}				
Nominal Power (Pmax)	[Wp]	540	545	550
Power Sorting ³	[W]	-0/+5	-0/+5	-0/+5
Maximum Power Voltage (Vmp)	[V]	38.9	39	39.1
Maximum Power Current (Imp)	[A]	13.87	13.97	14.07
Open Circuit Voltage (Voc)	[V]	46.9	47	47.1
Short Circuit Current (Isc)	[A]	14.76	14.86	14.97
Module Efficiency (ηm)	[%]	20.7	20.9	21
Maximum System Voltage	[V]	1500	1500	1500
Series Fuse Maximum Rating	[A]	25	25	25

ELECTRICAL CHARACTERISTICS AT NMOT ⁴				
Maximum Power (Pmax)	[W]	407	410	414
Maximum Power Voltage (Vmp)	[V]	37.1	37.2	37.3
Maximum Power Current (Imp)	[A]	10.96	11.03	11.11
Open Circuit Voltage (Voc)	[V]	44.7	44.8	44.9
Short Circuit Current (Isc)	[A]	11.89	11.97	12.06

MECHANICAL CHARACTERISTICS		
Solar cells	monocrystalline [pcs]	345
	Dimensions [mm]	G12-based shingles
Front glass	high-transparency	
	Thickness [mm] / [in]	3.2 / 0.126
Backsheet	White	
Encapsulant	EVA	
Frame	Anodized aluminum alloy	silver
Junction box	Split-type	
	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]	2384 x 1096 x 35
	H x L x W [in]	93.86 x 43.15 x 1.38
Weight	[kg] / [lbs]	28.3 / 62.37
Maximum load	Wind / Snow [Pa]	2400 / 5400
Fire Class	Class C	

PACKAGING		
Packing configuration	[pcs/pallet]	31
Loading capacity	[pcs/40 ft container]	620

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	
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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

