

# AEG

## 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 backsheet, 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 <sup>1,2</sup>			
Nominal Power (Pmax)	[Wp]	430	435
Power Sorting <sup>3</sup>	[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 <sup>4</sup>			
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 <sup>2</sup> ]	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 <sup>2</sup> , 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 <sup>2</sup> , Wind Speed 1m/s, Ambient Temperature 20°C, Air Mass AM=1.5	
5-Full text of the Warranty Terms available at: <a href="http://www.aeg-industrialsolar.de">www.aeg-industrialsolar.de</a> . 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%.	
Dimensions in the technical picture are expressed in mm with tolerance ±2 mm (±0.079") / Version 2022.05.V1.EN © 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 -2:2016, EN 61215 -2:2017 + AC2017 + AC2018; IEC 61730 (-1, -2:2016); EN 61730 -1/-2:2018 + AC 2018

WARRANTIES		
Product warranty <sup>5</sup>	[years]	15 (opt. ext. to 20)
Performance warranty (linear) <sup>6</sup>	[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

