

AEG

N-TYPE TOPCON DOUBLE GLASS MONOFACIAL MODULE

AS-M962B-MH(RG12)/HV

CHARACTERISTICS

Power range: 465-475 Wp
Double glass monofacial photovoltaic module
Half-Cut N-Type TOPCON cell technology
Efficiency up to 23.52%

2.0 mm glass thickness

2 mm

ADVANTAGES

Maximum power/efficiency thanks to bifacial n-type cells
Optimized design for more energy output
Outstanding sleek optics
PFAS- free and recyclable components
Focus on circular economy- low carbon footprint



**30 YEARS PRODUCT WARRANTY AND
30 YEARS PERFORMANCE WARRANTY
30 YEARS EXCHANGE & REFUND SERVICE**

N-TYPE TOPCON DOUBLE GLASS MONOFACIAL MODULE

AS-M962B-MH(RG12)/HV

PRODUCT SERIES & NAMECODE (PNC)

AEG HIGH EFFICIENCY SERIES
AS-M962B-MH(RG12)-465/470/475/HV
Black frame; Black sheet: Front; White backsheet: Back

CERTIFICATIONS

System	ISO 9001, ISO 14001, ISO 45001
Product	IEC 61215, IEC 61730

ELECTRICAL CHARACTERISTICS AT STC^{1,2}

Nominal Power (Pmax)	[Wp]	465	470	475
Power Sorting ³	[W]	0-5	0-5	0-5
Maximum Power Voltage (Vmp)	[V]	31.21	31.47	31.68
Maximum Power Current (Imp)	[A]	14.91	14.95	14.99
Open Circuit Voltage (Voc)	[V]	36.46	36.60	36.74
Short Circuit Current (Isc)	[A]	15.88	15.93	15.98
Module Efficiency (ηm)	[%]	23.3	23.5	23.8
Maximum System Voltage	[V]	1500	1500	1500
Series Fuse Maximum Rating	[A]	25	25	25

WARRANTIES

Product warranty ⁵	[years]	30
Performance warranty (linear) ⁶	[years]	30

TEMPERATURE CHARACTERISTICS

NMOT	[°C]	42 (±2)
Pmax Temp. Coefficient (γ)	[%/ °C]	-0.29
Voc Temp. Coefficient (β)	[%/ °C]	-0.25
Isc Temp.Coefficient (α)	[%/ °C]	0.048
Operating temperature	[°C]	-40~+85

ELECTRICAL CHARACTERISTICS AT NMOT⁴

Maximum Power (Pmax)	[W]	354	358	362
Maximum Power Voltage (Vmp)	[V]	29.28	29.53	29.73
Maximum Power Current (Imp)	[A]	12.11	12.15	12.18
Open Circuit Voltage (Voc)	[V]	35.09	35.22	35.36
Short Circuit Current (Isc)	[A]	12.80	12.84	12.88

MECHANICAL CHARACTERISTICS

Solar cells	monocrystalline [pcs]	96
	Dimensions [mm]	RG12 Half-cut [182 x 210]
Front glass	high-transparency (anti-reflective coating)	
	Thickness [mm] / [in]	2.0 / 0.08
Back glass	White	2.0 / 0.08
Encapsulant	EVA	
Frame	Anodized aluminum alloy	Black
Junction box	Split type, IP68	
	Bypass diodes	3
UV-resistant cables	Length [mm] / [in]	1100 / 43.31
	Section [mm ²]	4
Connectors	MC4 original	
Dimensions	H x L x W [mm]	1762 x 1134 x 30
	H x L x W [in]	69.37 x 44.65 x 1.18
Weight	[kg] / [lbs]	24.0 / 52.90
Maximum load	Wind / Snow [Pa]	2400 / 5400
Fire Class	Class C	

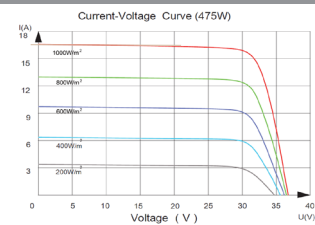
PACKAGING

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 60904-3): Pmax±3%, Voc±3%, Isc±4% Bifaciality 80±5%
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-solar.com . If not offered by your distributor, the standard warranty conditions apply.
6-(HE/GG) No less than 99% of the minimum "Peak Power at STC" in the first year; power output decline no more than 0.4% per year thereafter, ending with 87.40%.
Dimensions in the technical picture are expressed in mm with tolerance ±2 mm (+0.079") / Version 2025.09.V1.1.EN © Solar Solutions Group. Specifications in this datasheet are subject to change without notice.
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I/V CURVES - IRRADIANCES



TECHNICAL DRAWINGS

