

AEG

PHOTOVOLTAIC MODULE AS-M1269B-K (M6 CELLS)



375-385 Wp 126 BACK-CONTACT (MWT) HALF-CUT CELLS

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



BACK-CONTACT MWT CELL TECHNOLOGY, TOP EFFICIENCY AND RELIABILITY

The innovative design based on back-contact MWT cell technology and conductive backsheet maximises the light-converting surface by up to 3%, boosting module efficiency while minimizing microcracking risk and resistance loss.



EXTENSIVE WARRANTIES, EXTRA PEACE OF MIND

Thanks to their outstanding manufacturing quality, AEG Premium modules (with back-contact MWT technology) are covered by 20 years warranty on the product and 30 years warranty on performance.

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

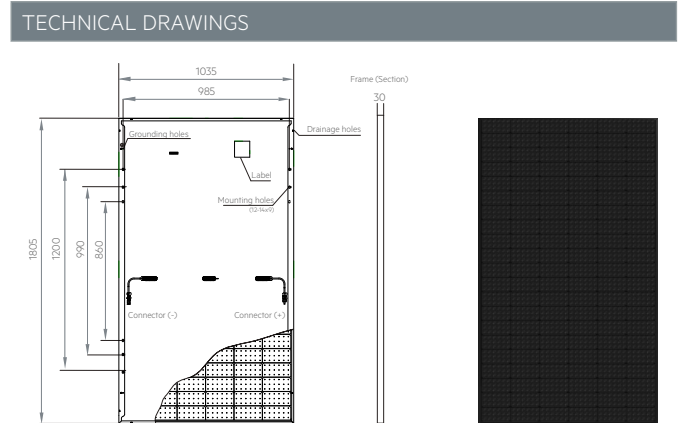


PRODUCT NAMECODE (PNC)
AS-M1269B-K(M6)-375/380/385/HV
black frame, black backsheet

PRODUCT SERIES & NAMECODE (PNC)			
AEG PREMIUM SERIES			
AS-M1269B-K(M6)-375/380/385/HV			
black backsheet, black frame			

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 61730-2:2018+AC:2018

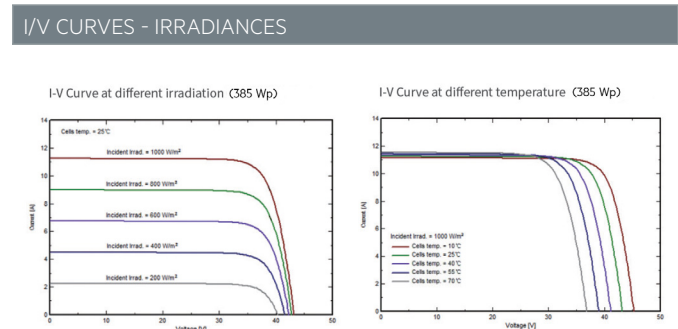
ELECTRICAL CHARACTERISTICS AT STC ^{1,2}				
Nominal Power (Pmax)	[Wp]	375	380	385
Power Sorting ³	[Wp]	-0/+5	-0/+5	-0/+5
Maximum Power Voltage (Vmp)	[V]	35.5	35.7	35.9
Maximum Power Current (Imp)	[A]	10.57	10.65	10.73
Open Circuit Voltage (Voc)	[V]	42.8	43.0	43.2
Short Circuit Current (Isc)	[A]	11.10	11.18	11.26
Module Efficiency (ηm)	[%]	20.1	20.3	20.6
Maximum System Voltage	[V]	1500	1500	1500
Series Fuse Maximum Rating	[A]	20	20	20



ELECTRICAL CHARACTERISTICS AT NMOT ⁴				
Maximum Power (Pmax)	[W]	282	286	290
Maximum Power Voltage (Vmp)	[V]	32.7	32.9	33.1
Maximum Power Current (Imp)	[A]	8.63	8.70	8.77
Open Circuit Voltage (Voc)	[V]	40.0	40.2	40.4
Short Circuit Current (Isc)	[A]	9.02	9.08	9.14

TEMPERATURE CHARACTERISTICS		
NMOT	[°C]	43±2
Pmax Temp. Coefficient (γ)	[%/°C]	-0.36
Voc Temp. Coefficient (β)	[%/°C]	-0.28
Isc Temp. Coefficient (α)	[%/°C]	0.06
Operating temperature	[°C]	-40~+85

MECHANICAL CHARACTERISTICS		
Solar cells	monocrystalline [pcs]	126
	Dimensions [mm]	M6 MWT half-cut [166 x 83]
Front glass	high-transparency	Transparent
	Thickness [mm] / [in]	3.2 / 0.125
Backsheet	Black	
Encapsulant	EVA	Transparent
Frame	Anodized aluminum alloy	Black
Junction box	Split-type	IP68
	Bypass diodes	3
UV-resistant cables	Length [mm] / [in]	1150 / 45.27
	Section [mm ²]	4
Connectors	MC4	compatible
Dimensions	H x L x W [mm]	1805 x 1035 x 30
	H x L x W [in]	71.06 x 40.74 x 1.18
Weight	[kg] / [lbs]	20 / 44.08
Maximum load	Wind / Snow [Pa]	2400 / 5400



PACKAGING		
Packing configuration	[pcs/pallet]	36
Loading capacity	[pcs/40 ft container]	912

WARRANTIES		
Product warranty	[years]	20
Performance warranty (linear) ⁵	[years]	30

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=4%

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/CLU) No less than 98.5% of the minimum Peak Power at STC¹ in the first year; power output decline no more than 0.45% per year thereafter. For the full warranty terms please visit www.aeg-industrialsolar.de

6-Dimensions in the technical picture are expressed in mm with tolerance ±2 mm (±0.079")

Version 2021.11.V1.EN

© Solar Solutions GmbH. Specifications in this datasheet are subject to change without notice.

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