



Deutsche
Qualität
Garantiert

 **AURORA**
P-TYPE PERC TECHNOLOGY

MB-72E

380W-395W

High in energy yield, reliability and durability

20.04%
MAXIMUM EFFICIENCY

72
FULL CELLS

30 YEARS
Performance Warranty

up to **30 YEARS***
Product Warranty

*The regular product warranty is 15 years, please refer to the latest version of AESOLAR Limited Warranty for the duration of the product warranty under special conditions. for extensions, please contact AESOLAR staff.



LID
RESISTANT



PID
RESISTANT



SALT CORROSION
RESISTANT



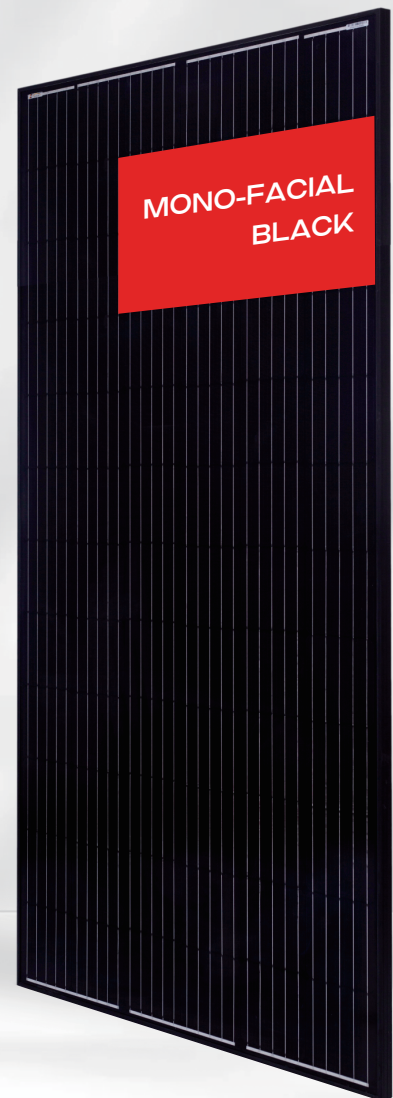
SAND
RESISTANT



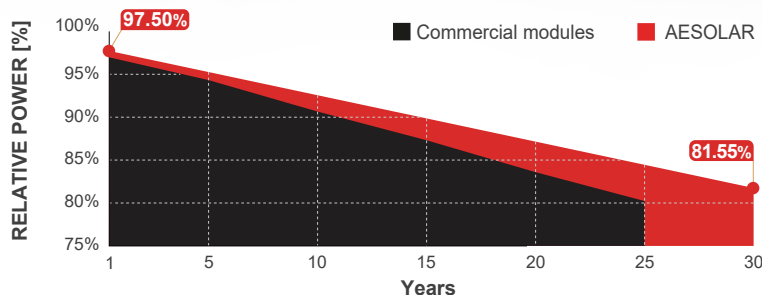
AMMONIA
RESISTANT



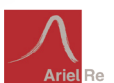
HIGHLY STABLE
AND TOUGH



OUR PERFORMANCE WARRANTY



SYSTEM AND PRODUCT CERTIFICATIONS



IEC 61215 IEC 61730
Regular Production Surveillance
www.tuv.com
ID 1111251295



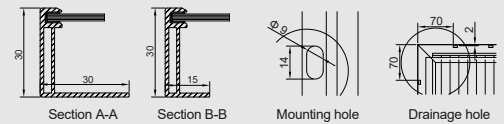
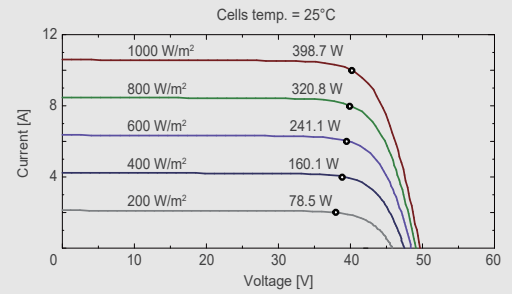
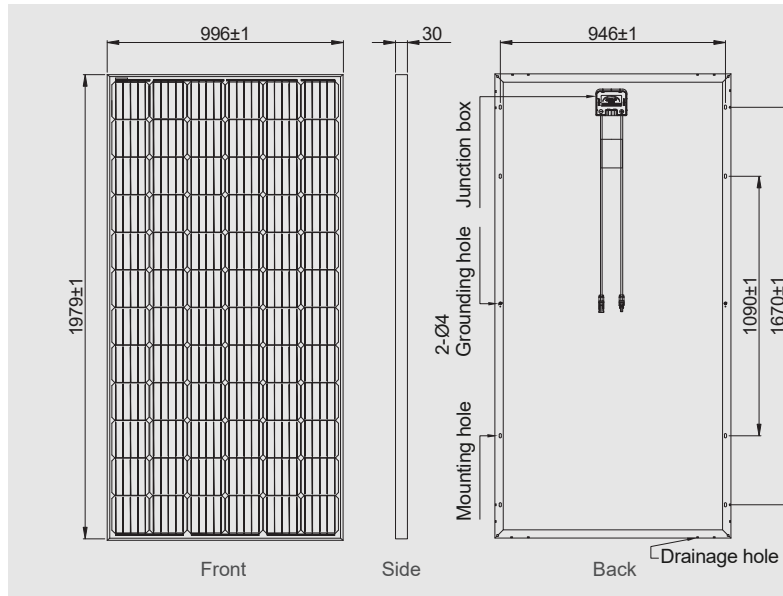
AESOLAR

www.ae-solar.com

AE MB-72E 380W-395W

P-TYPE PERC TECHNOLOGY PV MODULE

MONO-FACIAL • BLACK



Electrical specifications (STC*):

Nominal max. power	P_{max} (Wp)	380	385	390	395
Maximum operating voltage	V_{MPP} (V)	40.50	40.80	41.10	41.40
Maximum operating current	I_{MPP} (A)	9.39	9.44	9.49	9.54
Open-circuit voltage	V_{oc} (V)	48.90	49.10	49.30	49.48
Short-circuit current	I_{sc} (A)	9.72	9.92	10.12	10.50
Module efficiency	η (%)	19.28	19.53	19.79	20.04
Power tolerance	(W)	0~+5			
Maximum system voltage	(V)	1500			
Maximum series fuse rating	(A)	15			

*STC: Standard Test Conditions (irradiance 1000 W/m², cell temperature 25°C and air mass of AM1.5), measurement tolerance P_{max} : ±3%

Electrical specifications (NMOT*):

Nominal max. power	P_{max} (Wp)	285	288	291	294
Maximum operating voltage	V_{MPP} (V)	37.90	38.10	38.30	38.50
Maximum operating current	I_{MPP} (A)	7.52	7.55	7.59	7.63
Open-circuit voltage	V_{oc} (V)	46.50	46.70	46.90	47.10
Short-circuit current	I_{sc} (A)	7.78	7.94	8.10	8.40

*NMOT: Normal Module Operating Temperature (irradiance 800 W/m², ambient temperature 20°C, air mass of AM1.5 and wind speed of 1 m/s)

Mechanical and design specification

Cell type	Gallium-doped mono c-Si PERC, full cells
No. of cells	72
Front cover	3.2 mm glass, high transmission, AR coated, tempered
Encapsulation	EVA
Back cover	Black backsheet
Junction box	IP68 rated, 3 bypass diodes
Frame	30 mm anodized aluminium alloy
Cable	1 x 4 mm², 900 mm length or customized
Connectors	MC 4 / MC 4 compatible
Dimension	1979 mm x 996 mm x 30 mm
Weight	20.5 kg
Hail resistance	Max. Ø 25 mm at 23 m/s
Wind load	2400 Pa or 244 kg/m²
Snow load	5400 Pa or 550 kg/m²

Temperature ratings

Operating temperature	-40 to +85°C
Temp. coefficient of P_{max}	-0.37 %/°C
Temp. coefficient of V_{oc}	-0.28 %/°C
Temp. coefficient of I_{sc}	0.048 %/°C
Nom. operating cell temp. NOCT	45 ± 2°C

Packaging information

Packaging configuration	36 pcs / pallet
Loading capacity	836 pcs / 40 HQ
Size / Pallet	2015 mm x 1140 mm x 1117 mm
Weight	780 kg / pallet