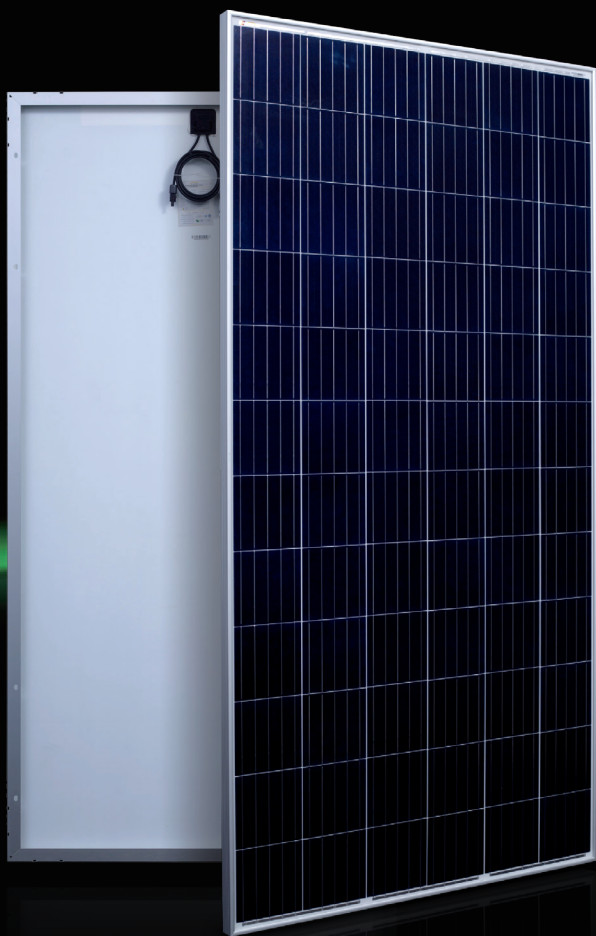




# AESOLAR

since 2003



## AURORA

**HIGH** ENERGY YIELD  
RELIABILITY  
DURABILITY

**30**  
years

Performance  
Warranty

**15**  
years

Product  
Warranty

## 385W-400W

### AE MB-72 Series

MONO-CRYSTALLINE PV MODULES  
FULL CELLS • MONO-FACIAL

[www.ae-solar.com](http://www.ae-solar.com)

Ver. 24.1.1



FULL  
CELLS



CELL  
SIZE



LID  
RESISTANT



PID  
RESISTANT



SALT CORROSION  
RESISTANT



SAND  
RESISTANT



AMMONIA  
RESISTANT



HIGHLY STABLE  
AND TOUGH



IEC 61215 IEC 61730  
Regular Production Surveillance  
[www.tuv.com](http://www.tuv.com)  
ID 1111251295

IEC 62716 (Ammonia corrosion)  
IEC 61701 (Salt mist corrosion)



# AE MB-72 Series 385W-400W



MONO-CRYSTALLINE PV MODULES  
FULL CELLS • MONO-FACIAL

## Mechanical and design specification

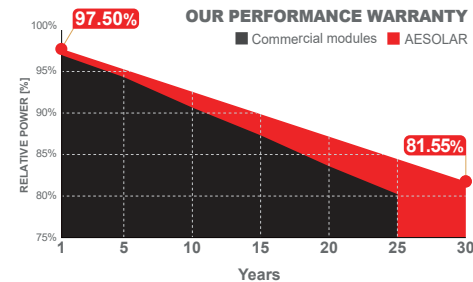
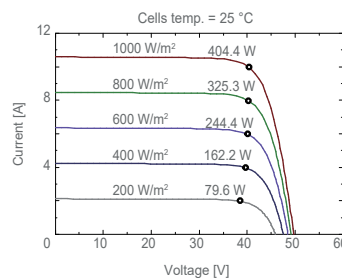
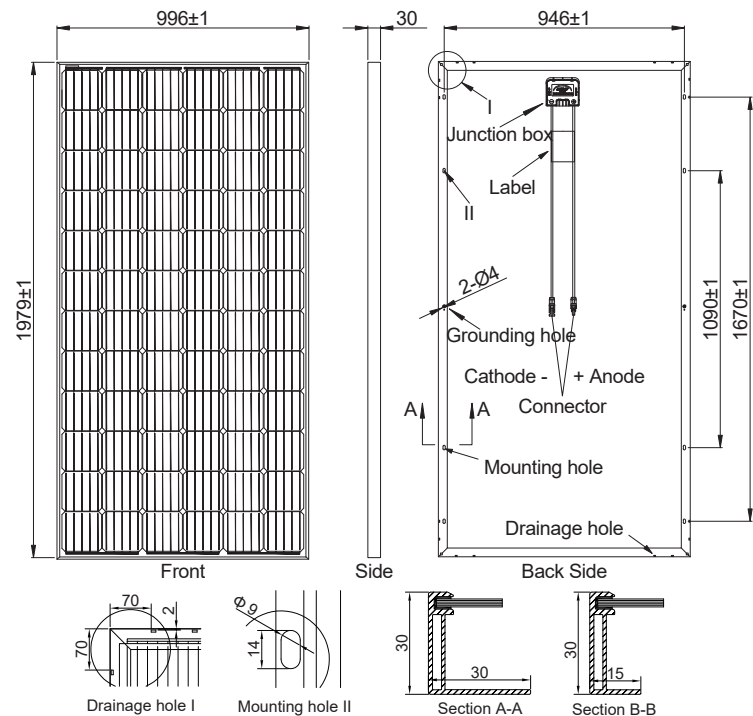
Cell type	Mono c-Si PERC, Full cells, 158.75 mm
No. of cells	72
Front cover	3.2 mm glass, high transmission, AR coated, tempered
Encapsulation	EVA
Back cover	White backsheet
Junction box	IP68 rated, 3 Bypass Diodes
Frame	30 mm anodized Aluminium alloy
Cable	1 x 4 mm <sup>2</sup> , 900 mm length or customized
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/m <sup>2</sup>
Snow load	5400 Pa or 550 kg/m <sup>2</sup>

## Packaging information

Packaging configuration	36 pcs / pallet
Loading capacity	836 pcs / 40 HQ
Size / Pallet	2015 mm x 1140 mm x 1117.5 mm
Weight	780 kg / pallet

## Temperature ratings

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



Electrical specifications (STC*):		AE385MB-72	AE390MB-72	AE395MB-72	AE400MB-72
Nominal Max. Power	$P_{max}$ (Wp)	385	390	395	400
Maximum operating voltage	$V_{MPP}$ (V)	40.80	41.10	41.40	41.71
Maximum operating current	$I_{MPP}$ (A)	9.44	9.49	9.54	9.59
Open-circuit voltage	$V_{oc}$ (V)	49.10	49.30	49.48	49.69
Short-circuit current	$I_{sc}$ (A)	9.92	10.12	10.50	10.59
Module efficiency	$\eta$ (%)	19.53	19.79	20.04	20.29
Power tolerance	(W)	0~+5			
Maximum system Voltage	(V)	1500			
Maximum series fuse rating	(A)	15			

\*STC: Standard test conditions (Irradiance 1000 W/m<sup>2</sup>, Cell temperature 25°C and air mass of AM1.5), measurement tolerance  $P_{max}$ : ±3%

Electrical specifications (NMOT*):		AE385MB-72	AE390MB-72	AE395MB-72	AE400MB-72
Nominal Max. Power	$P_{max}$ (Wp)	288	291	294	297
Maximum operating voltage	$V_{MPP}$ (V)	38.10	38.30	38.50	38.70
Maximum operating current	$I_{MPP}$ (A)	7.55	7.59	7.63	7.67
Open-circuit voltage	$V_{oc}$ (V)	46.70	46.90	47.10	47.30
Short-circuit current	$I_{sc}$ (A)	7.94	8.10	8.40	8.47

\*NMOT: Normal Module Operating Temperature (Irradiance 800 W/m<sup>2</sup>, Ambient temperature 20°C, air mass of AM1.5 and wind speed of 1 m/s)

The specifications and characteristics contained in this datasheet may deviate slightly from our actual products due to the product developments and uncertainty of measurement devices. The specifications included in the datasheet are subject to change without prior notice.