AURORA

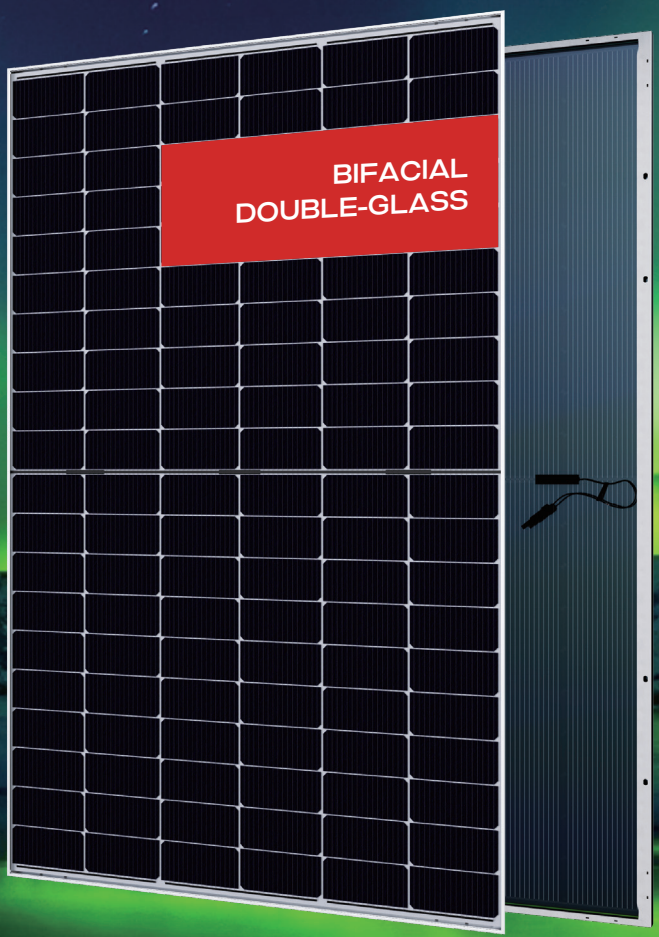
P-TYPE PERC TECHNOLOGY

Wood Mackenzie Grade A | TIER 1 BloombergNEF | SMM TIER 1

Deutsche Qualität Garantiert

360W-380W

MC-120BD



20.87%
MAXIMUM EFFICIENCY

120
HALF CELLS

- Established durability and yield data
- High flexibility with BOM

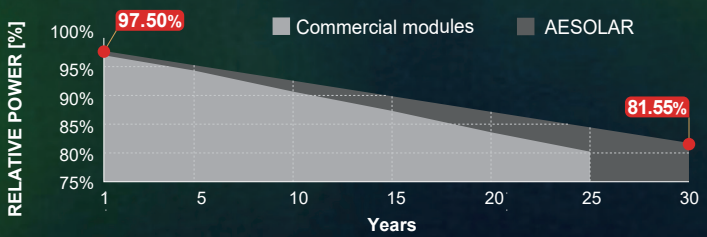
Ver. 26.8.1

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.

OUR PERFORMANCE WARRANTY



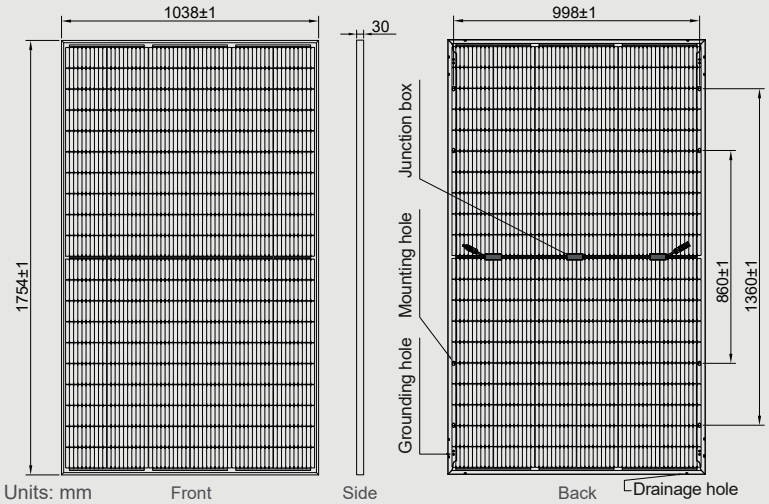
AESOLAR
Since 2003

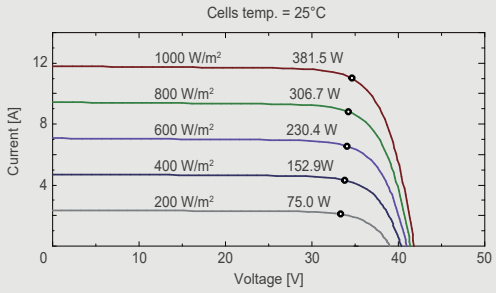
LID RESISTANT | PID RESISTANT | SALT CORROSION RESISTANT | SAND RESISTANT | AMMONIA RESISTANT | HIGHLY STABLE AND TOUGH

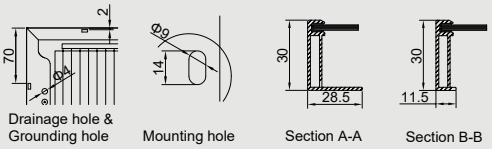
AE MC-120BD 360W-380W

P-TYPE PERC TECHNOLOGY

BIFACIAL • DOUBLE-GLASS







Electrical specifications (STC*):

Nominal max. power	P_{max} (Wp)	360	365	370	375	380
Maximum operating voltage	V_{MPP} (V)	34.00	34.20	34.40	34.60	34.80
Maximum operating current	I_{MPP} (A)	10.59	10.67	10.76	10.84	10.92
Open-circuit voltage	V_{oc} (V)	40.90	41.10	41.30	41.50	41.70
Short-circuit current	I_{sc} (A)	11.40	11.50	11.60	11.70	11.80
Module efficiency	η (%)	19.77	20.05	20.32	20.60	20.87
Power tolerance	(W)			0~+5		
Maximum system voltage	(V)			1500		
Maximum series fuse rating	(A)			20		

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

Electrical specifications (NMOT*):

Nominal max. power	P_{max} (Wp)	271	275	279	283	287
Maximum operating voltage	V_{MPP} (V)	32.00	32.20	32.40	32.60	32.80
Maximum operating current	I_{MPP} (A)	8.47	8.54	8.60	8.67	8.74
Open-circuit voltage	V_{oc} (V)	38.50	38.70	38.90	39.10	39.30
Short-circuit current	I_{sc} (A)	9.12	9.20	9.28	9.36	9.44

*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)

Bifacial electrical specifications

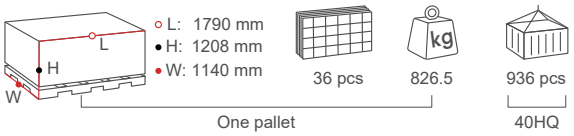
Max.power front-side $P_{max\ front}$ (Wp)	360		365		370		375		380	
Backside Power Gain	5%	10%	5%	10%	5%	10%	5%	10%	5%	10%
Total equivalent power $P_{max\ equ}$ (Wp)	378	396	383	401	389	407	394	413	399	418
Module efficiency η (%)	20.77	21.75	21.05	22.05	21.35	22.36	21.63	22.66	21.92	22.96

*Bifacial Gain: The additional gain from the back side compared to the power of the front side at the standard test condition. It depends on the mounting (structure, height, tilt angle, etc.) and albedo of the ground.

Mechanical and design specification

Cell type	Gallium-doped mono c-Si PERC, half-cut cells
No. of cells	120
Bifaciality	70 ± 5%
Front cover	2.0 mm glass, high transmission, AR coated, tempered
Encapsulation	POE
Back cover	2.0 mm, high transmission solar glass, tempered
Junction box	IP68 rated, 3 bypass diodes
Frame	30 mm anodized aluminium alloy
Cable (Including Connector)	1 x 4 mm², 300 mm length or customized
Connectors	MC 4 / MC 4 compatible
Dimension	1754 mm x 1038 mm x 30 mm
Weight	22 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

Packaging information



Temperature ratings

Operating temperature	-40 to +85°C
Temp. coefficient of P_{max}	-0.35 %/°C
Temp. coefficient of V_{oc}	-0.286 %/°C
Temp. coefficient of I_{sc}	0.057 %/°C
Nom. operating cell temp. NOCT	45 ± 2°C

SYSTEM AND PRODUCT CERTIFICATIONS

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

IEC 62716 (Ammonia corrosion)
IEC 61701 (Salt mist corrosion)
IEC 60068 (Sand and dust)
IEC 62804 (PID resistance)

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.

AESOLAR Since 2003
+49 8231 978268 0
sales@ae-solar.com
www.ae-solar.com
AESOLAR
Senefelderstraße 23
86368 Gersthofen, Germany