TIER 1 BloombergNEF

Deutsche
Qualität
Garantiert

AURORA
P-TYPE PERC TECHNOLOGY

ME-120
580W-600W

High in energy yield, reliability and durability

21.23%
MAXIMUM EFFICIENCY

120
HALF CELLS



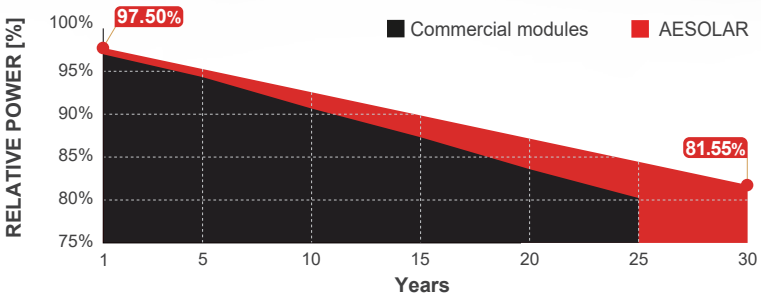
30 YEARS
Performance Warranty

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

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

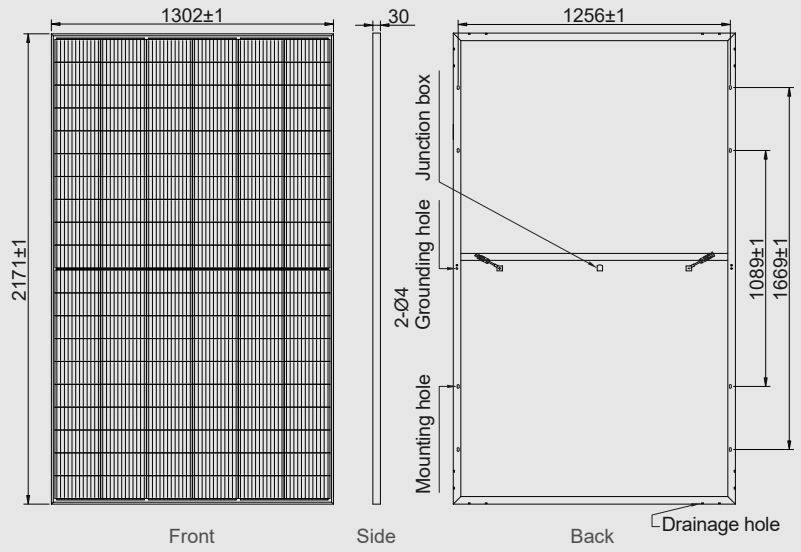
AESOLAR

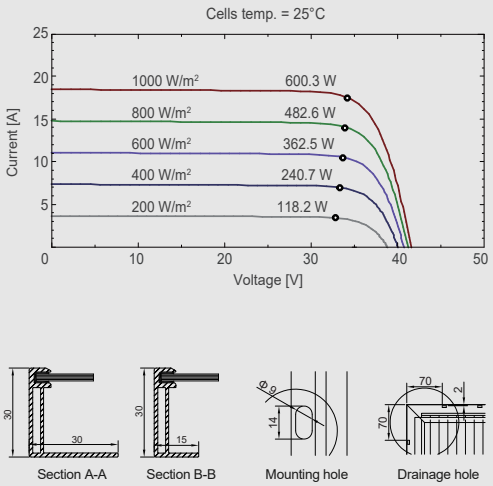
www.ae-solar.com

AE ME-120 580W-600W

P-TYPE PERC TECHNOLOGY PV MODULE

MONO-FACIAL PV MODULE





Electrical specifications (STC*):

Nominal max. power	P_{max} (Wp)	580	585	590	595	600
Maximum operating voltage	V_{MPP} (V)	33.60	33.80	34.00	34.20	34.40
Maximum operating current	I_{MPP} (A)	17.26	17.31	17.35	17.40	17.44
Open-circuit voltage	V_{oc} (V)	40.70	40.90	41.10	41.30	41.50
Short-circuit current	I_{sc} (A)	17.81	18.37	18.42	18.47	18.52
Module efficiency	η (%)	20.52	20.70	20.87	21.05	21.23
Power tolerance	(W)			0~+5		
Maximum system voltage	(V)			1500		
Maximum series fuse rating	(A)			30		

*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)	436	440	444	448	452
Maximum operating voltage	V_{MPP} (V)	31.60	31.80	32.00	32.20	32.40
Maximum operating current	I_{MPP} (A)	13.81	13.85	13.88	13.92	13.95
Open-circuit voltage	V_{oc} (V)	37.90	38.10	38.30	38.50	38.70
Short-circuit current	I_{sc} (A)	14.25	14.70	14.74	14.78	14.82

*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, half-cut cells
No. of cells	120
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 mm², 350 mm length or customized
Connectors	MC 4 / MC 4 compatible
Dimension	2171 mm x 1302 mm x 30 mm
Weight	29 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}	-0.34 %/°C
Temp. coefficient of V_{oc}	-0.25 %/°C
Temp. coefficient of I_{sc}	0.040 %/°C
Nom. operating cell temp. NOCT	43 ± 2°C

Packaging information

Packaging configuration	36 pcs / pallet
Loading capacity	612 pcs / 40 HQ
Size / Pallet	1350 mm x 1145 mm x 2310 mm (Upright)
Weight	1081 kg / pallet

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

+49 8231 978268 0
sales@ae-solar.com
www.ae-solar.com

AESOLAR
Messerschmittring 54
86343 Königsbrunn, Germany

Ver. 24.5.1