Deutsche
Qualität
Garantiert

AE SOLAR
alternative energy

TIER 1
Bloomberg
NEW ENERGY FINANCE

120
HALF CELLS

210 mm
CELL SIZE

LID RESISTANT

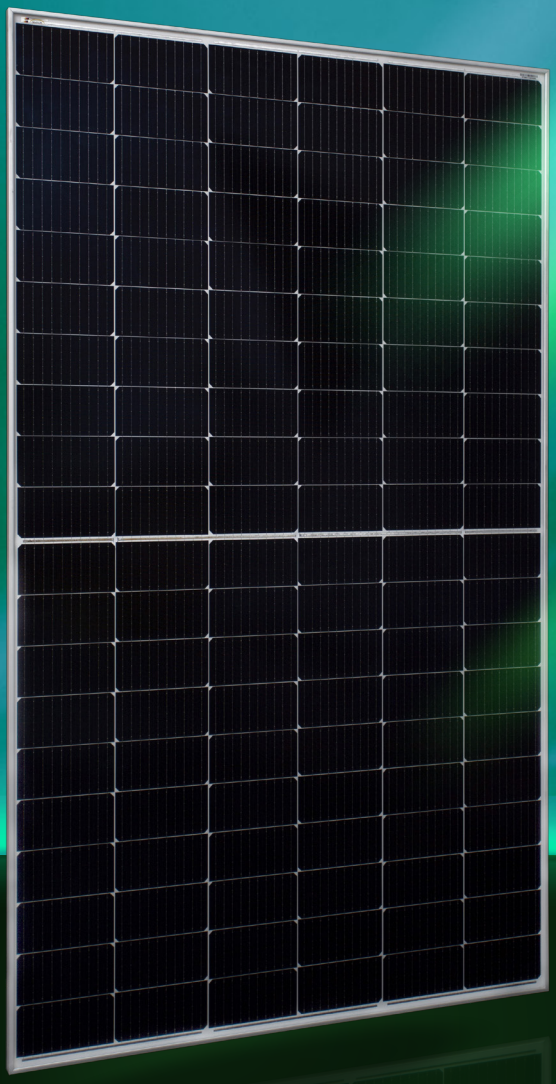
PID
PID RESISTANT

SALT CORROSION RESISTANT

SAND RESISTANT

NH_3
S
AMMONIA RESISTANT

HIGHLY STABLE AND TOUGH



AURORA

HIGH ENERGY YIELD RELIABILITY DURABILITY

30 years
Performance Guarantee

15 years
Product Warranty

MONO-CRYSTALLINE PV MODULES
HALF-CUT CELLS • BIFACIAL • DOUBLE-GLASS

585W-605W

AE ME-120BD Series

IEC 61215
IEC 61730
Regular Production Surveillance
Type Tested and Monitored

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

www.ae-solar.com

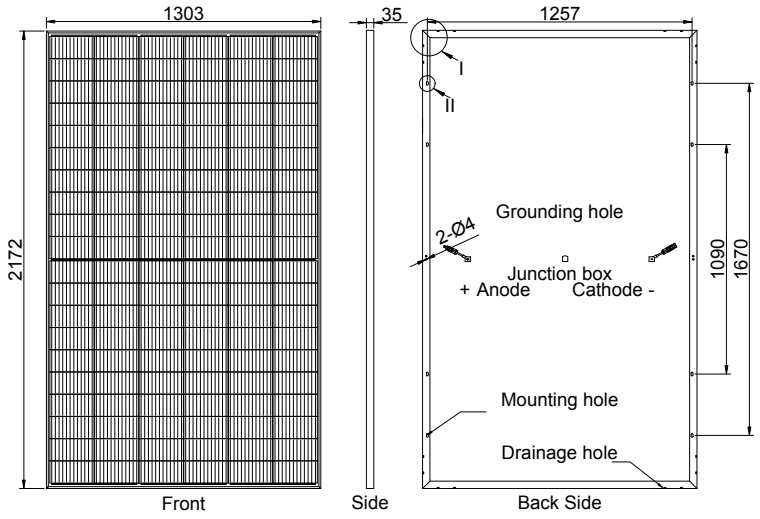
AE SOLAR
alternative energy

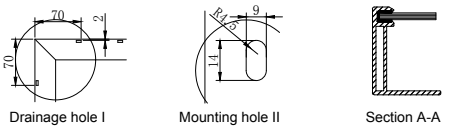
MONO-CRYSTALLINE PV MODULES
HALF-CUT CELLS • BIFACIAL • DOUBLE-GLASS

AE ME-120BD Series 585W-605W

Mechanical and design specification

Cell type	Gallium-doped Mono c-Si PERC, Half-cut cells, 210 mm
No. of cells	120
Bifaciality	70±5%
Glass	2.0 mm, high transmission, AR coated, tempered
Encapsulation	POE
Back cover	2.0 mm, high transmission solar glass, tempered
Junction box	IP 68 rated
Frame	35 mm anodized Aluminium alloy
Cable	1 x 4 mm², 350 mm length or customized
Connectors	MC 4 / MC 4 compatible
Dimension	2172 mm x 1303 mm x 35 mm
Weight	35.3 kg
Hail resistance	Max. Ø 25 mm at 23 m/s
Wind load	2400 Pa/ 244 kg/ m²
Mechanical load	5400 Pa/ 550 kg/ m²



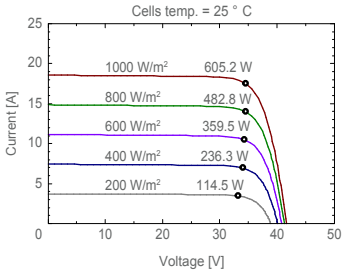


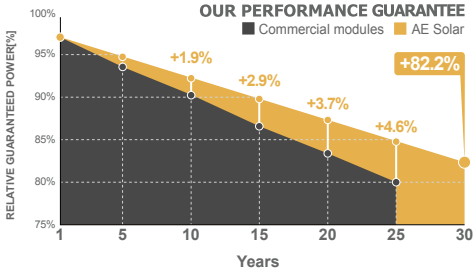
Packaging information

Packaging configuration	31 pcs / pallet
Loading capacity	527 pcs / 40 HQ
Size / Pallet	1350 mm x 1145 mm x 2310 mm (Stand on end)
Weight	1132 kg / pallets

Temperature ratings

Operating temperature	(°C)	-40 to +85
Temp.coefficient of P_{max}	(%/°C)	-0.34
Temp.coefficient of V_{oc}	(%/°C)	-0.25
Temp.coefficient of I_{sc}	(%/°C)	0.04
Nom. operating temp. NOCT	(°C)	43 ± 2





Electrical specifications (STC*):

		AE585ME-120BD	AE590ME-120BD	AE595ME-120BD	AE600ME-120BD	AE605ME-120BD
Nominal Max. Power	P_{max} (Wp)	585	590	595	600	605
Maximum operating voltage	V_{MPP} (V)	33.80	34.00	34.20	34.40	34.60
Maximum operating current	I_{MPP} (A)	17.31	17.35	17.40	17.44	17.49
Open-circuit voltage	V_{oc} (V)	40.90	41.10	41.30	41.50	41.70
Short-circuit current	I_{sc} (A)	18.37	18.42	18.47	18.52	18.57
Module efficiency	η (%)	20.70	20.80	21.00	21.20	21.40
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)

Electrical specifications (NMOT*):

		AE585ME-120BD	AE590ME-120BD	AE595ME-120BD	AE600ME-120BD	AE605ME-120BD
Nominal Max. Power	P_{max} (Wp)	440	444	448	452	456
Maximum operating voltage	V_{MPP} (V)	31.80	32.00	32.20	32.40	32.60
Maximum operating current	I_{MPP} (A)	13.85	13.88	13.92	13.95	13.99
Open-circuit voltage	V_{oc} (V)	38.10	38.30	38.50	38.70	38.90
Short-circuit current	I_{sc} (A)	14.70	14.74	14.78	14.82	14.86

*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)

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.