

Deutsche
Qualität
Garantiert



120

HALF
CELLS

210
mm

CELL
SIZE



LID
RESISTANT



PID
RESISTANT



SALT CORROSION
RESISTANT



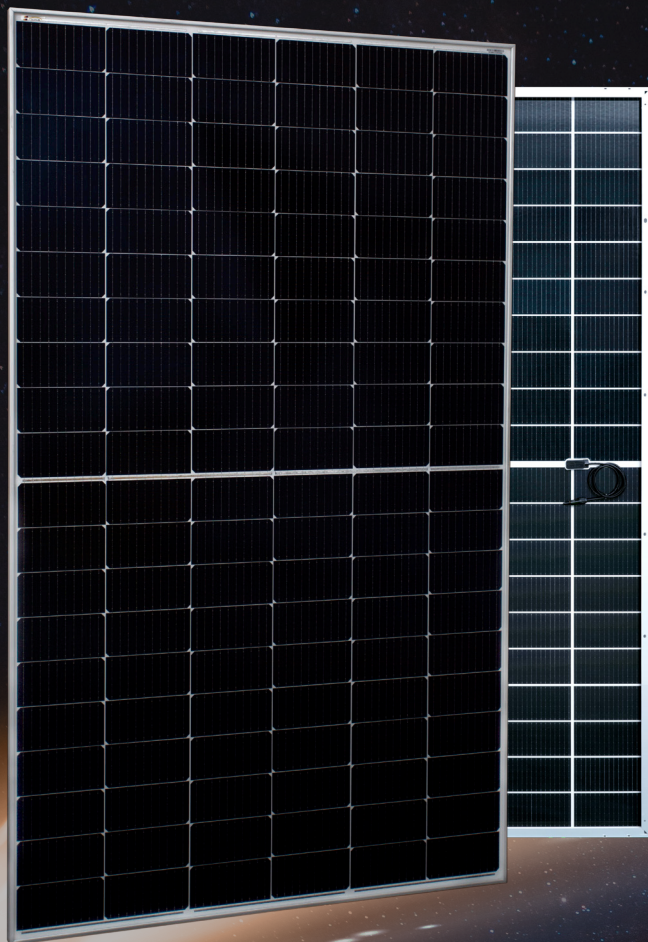
SAND
RESISTANT



NH₃
S
AMMONIA
RESISTANT



HIGHLY STABLE
AND TOUGH



OMET

ENRICH YOUR
ENERGY YIELD

30

years
Performance
Guarantee

15

years
Product
Warranty

SILICON HETEROJUNCTION PV MODULES
HALF-CUT CELLS • BIFACIAL • DOUBLE-GLASS

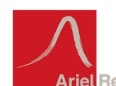
615W-635W

AE TME-120BDS 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 TME-120BDS Series 615W-635W

Mechanical and design specification

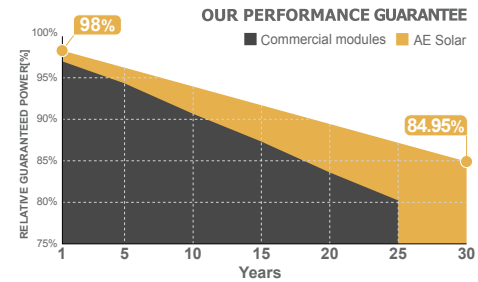
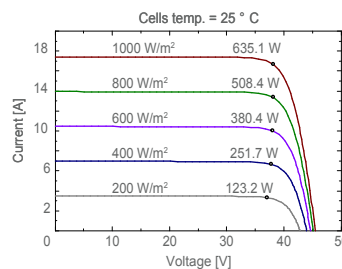
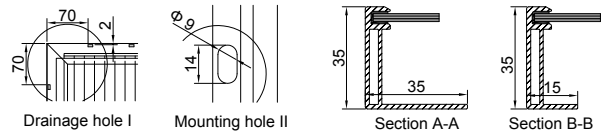
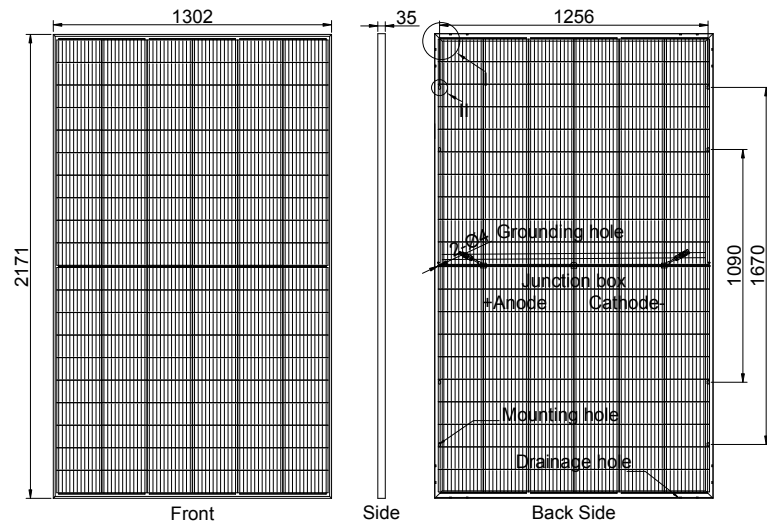
Cell type	Silicon Heterojunction Technology, Half-cut cells, 210 mm
No. of cells	120
Bifaciality	80±5%
Glass	2.0 mm, high transmission, AR coated, tempered
Encapsulation	POE
Back cover	2.0 mm white glazed glass, tempered
Junction box	IP 68 rated
Frame	35 mm anodized Aluminium alloy
Cable	1 x 4 mm ² , 200 mm length or customized
Connectors	MC 4 / MC 4 compatible
Dimension	2171 mm x 1302 mm x 35 mm
Weight	35.3 kg
Hail resistance	Max. Ø 25 mm at 23 m/s
Wind load	2400 Pa/ 244 kg/ m ²
Mechanical load	5400 Pa/ 550 kg/ m ²

Packaging information

Packaging configuration	31 pcs / pallet
Loading capacity	527 pcs / 40 HQ
Size / Pallet	1350 mm x 1145 mm x 2310 mm (upright)
Weight	1135 kg / pallet

Temperature ratings

Operating temperature	(°C)	-40 to +85
Temp.coefficient of P_{max}	(%/°C)	-0.26
Temp.coefficient of V_{oc}	(%/°C)	-0.24
Temp.coefficient of I_{sc}	(%/°C)	0.04
Nom. operating temp. NOCT	(°C)	44 ± 2



Electrical specifications (STC*): AE615TME-120BDS AE620TME-120BDS AE625TME-120BDS AE630TME-120BDS AE635TME-120BDS

Nominal Max. Power	P_{max} (Wp)	615	620	625	630	635
Maximum operating voltage	V_{MPP} (V)	37.53	37.69	37.86	38.03	38.19
Maximum operating current	I_{MPP} (A)	16.39	16.45	16.51	16.57	16.63
Open-circuit voltage	V_{oc} (V)	44.77	44.95	45.13	45.30	45.48
Short-circuit current	I_{sc} (A)	17.19	17.25	17.31	17.37	17.43
Module efficiency	η (%)	21.76	21.93	22.11	22.29	22.46
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*): AE615TME-120BDS AE620TME-120BDS AE625TME-120BDS AE630TME-120BDS AE635TME-120BDS

Nominal Max. Power	P_{max} (Wp)	461	465	468	472	476
Maximum operating voltage	V_{MPP} (V)	35.14	35.33	35.49	35.64	35.80
Maximum operating current	I_{MPP} (A)	13.12	13.16	13.21	13.26	13.30
Open-circuit voltage	V_{oc} (V)	41.91	42.12	42.31	42.50	42.69
Short-circuit current	I_{sc} (A)	13.75	13.80	13.85	13.90	13.94

*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.

