

Deutsche
Qualität
Garantiert



108

HALF
CELLS

182
mm

CELL
SIZE



LID
RESISTANT



PID
RESISTANT



SALT CORROSION
RESISTANT



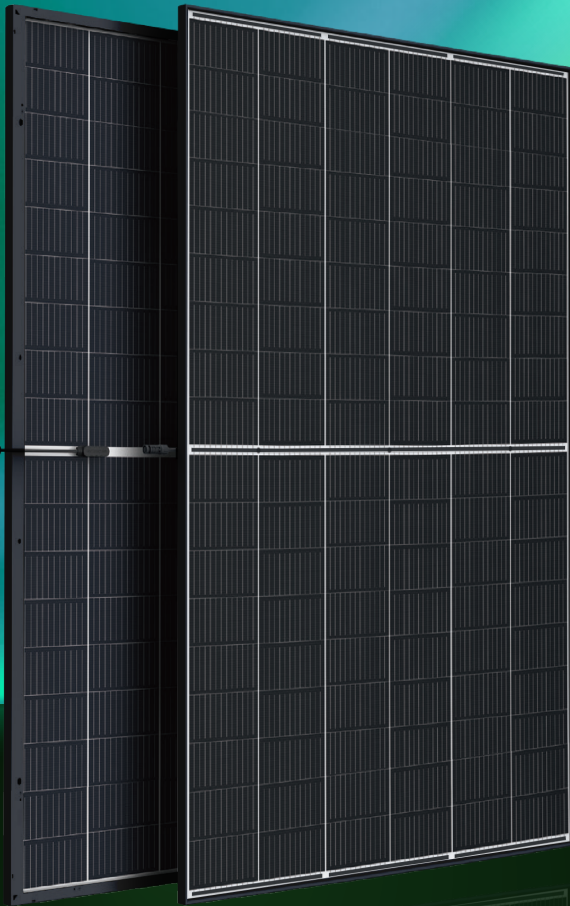
SAND
RESISTANT



AMMONIA
RESISTANT



HIGHLY STABLE
AND TOUGH



AURORA

HIGH ENERGY YIELD
RELIABILITY
DURABILITY

30

years

Performance
Guarantee

30

years

Product
Warranty

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

395W-415W

AE MD-108BD Series



IEC 61215
IEC 61730
Regular Production Surveillance
Type Tested and Monitored

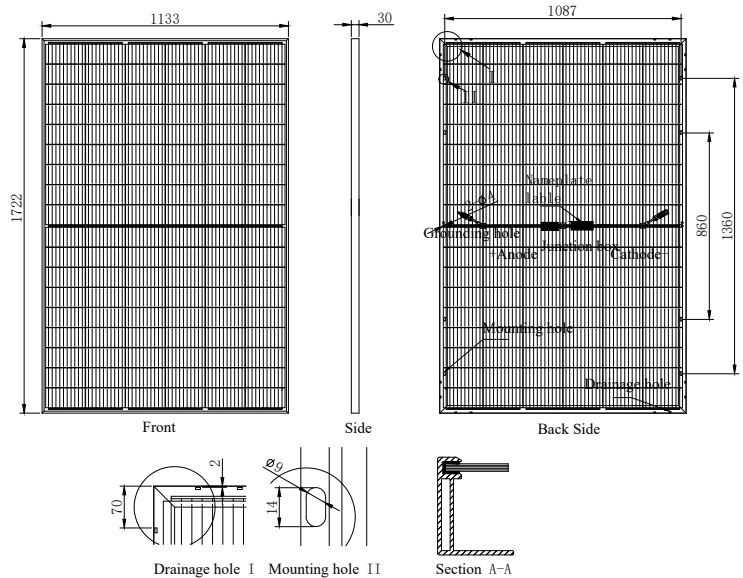
IEC 62716 (Ammonia corrosion)
IEC 61701 (Salt mist corrosion)
IEC 60068 (Sand and dust)
IEC 62804 (PID resistance)



www.ae-solar.com

Mechanical and design specification

Cell type	Gallium-doped Mono c-Si PERC, Half-cut cells, 182 mm
No. of cells	108
Bifaciality	70±5%
Glass	1.8 mm, high transmission, AR coated, tempered
Encapsulation	POE
Back cover	1.8 mm, high transmission solar glass, tempered
Junction box	IP 68 rated
Frame	30 mm anodized Aluminium alloy
Cable	1 x 4 mm ² , 1200 mm length or customized
Connectors	MC 4 Original
Dimension	1722 mm x 1133 mm x 30 mm
Weight	23.5 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

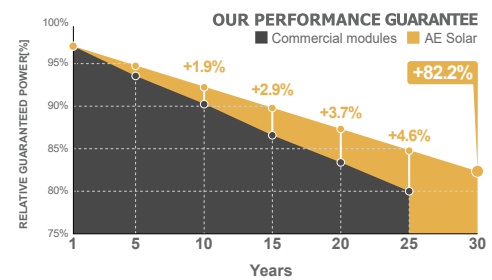
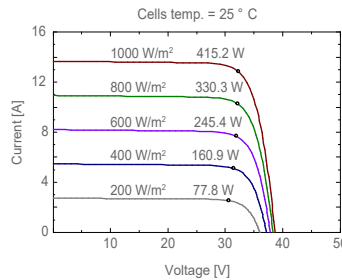


Packaging information

Packaging configuration	72 pcs / double pallet
Loading capacity	936 pcs / 40 HQ
Size / Pallet	1755 mm x 1140 mm x 2490 mm
Weight	1794 kg / double pallets

Temperature ratings

Operating temperature	(°C)	-40 to +85
Temp.coefficient of P _{max}	(%/°C)	-0.35
Temp.coefficient of V _{oc}	(%/°C)	-0.275
Temp.coefficient of I _{sc}	(%/°C)	0.045
Nom. operating temp. NOCT	(°C)	45 ± 2



Electrical specifications (STC*): AE395MD-108BD AE400MD-108BD AE405MD-108BD AE410MD-108BD AE415MD-108BD

Parameter	Symbol	AE395MD-108BD	AE400MD-108BD	AE405MD-108BD	AE410MD-108BD	AE415MD-108BD
Nominal Max. Power	P _{max} (Wp)	395	400	405	410	415
Maximum operating voltage	V _{MPP} (V)	31.08	31.35	31.62	31.88	32.12
Maximum operating current	I _{MPP} (A)	12.71	12.76	12.81	12.86	12.92
Open-circuit voltage	V _{oc} (V)	37.36	37.69	38.02	38.35	38.67
Short-circuit current	I _{sc} (A)	13.47	13.52	13.57	13.62	13.67
Module efficiency	η (%)	20.25	20.50	20.76	21.01	21.27
Power tolerance	(W)	0~+5				
Maximum system Voltage	(V)	1500				
Maximum series fuse rating	(A)	25				

*STC: Standard test conditions (Irradiance 1000 W/m², Cell temperature 25°C and air mass of AM1.5)

Electrical specifications (NMOT*): AE395MD-108BD AE400MD-108BD AE405MD-108BD AE410MD-108BD AE415MD-108BD

Parameter	Symbol	AE395MD-108BD	AE400MD-108BD	AE405MD-108BD	AE410MD-108BD	AE415MD-108BD
Nominal Max. Power	P _{max} (Wp)	298	301	304	308	311
Maximum operating voltage	V _{MPP} (V)	29.30	29.50	29.70	29.90	30.10
Maximum operating current	I _{MPP} (A)	10.17	10.21	10.25	10.29	10.34
Open-circuit voltage	V _{oc} (V)	35.20	35.40	35.60	35.80	36.00
Short-circuit current	I _{sc} (A)	10.78	10.82	10.86	10.90	10.94

*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.