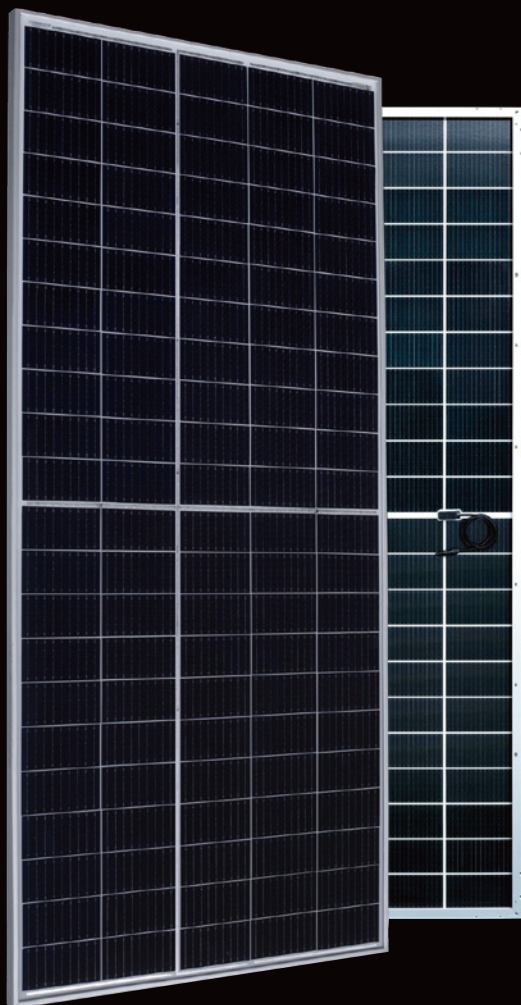




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110

HALF
CELLS

210
mm

CELL
SIZE



LID
RESISTANT



PID
RESISTANT



SALT CORROSION
RESISTANT



SAND
RESISTANT



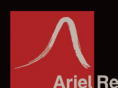
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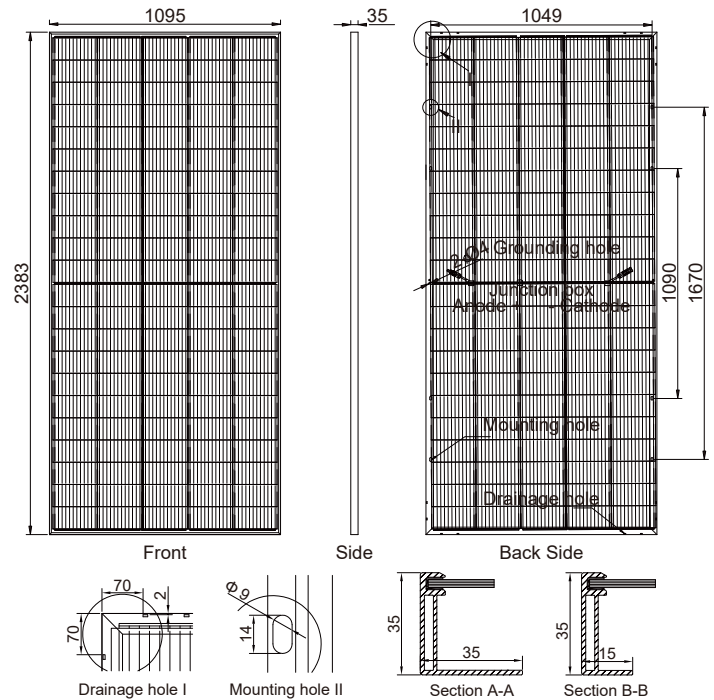
AE TME-110BDS Series 560W-580W



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

Mechanical and design specification

Cell type	Silicon Heterojunction Technology, Half-cut cells, 210 mm
No. of cells	110
Bifaciality	80 ± 5%
Front cover	2.0 mm glass, high transmission, AR coated, tempered
Encapsulation	POE
Back cover	2.0 mm white glazed glass, tempered
Junction box	IP68 rated, 3 Bypass Diodes
Frame	35 mm anodized Aluminium alloy
Cable	1 x 4 mm ² , 350 mm length or customized
Connectors	MC 4 / MC 4 compatible
Dimension	2383 mm x 1095 mm x 35 mm
Weight	32.5 kg
Hail resistance	Max. Ø 25 mm at 23 m/s
Wind load	2400 Pa or 244 kg/m ²
Snow load	5400 Pa or 550 kg/m ²

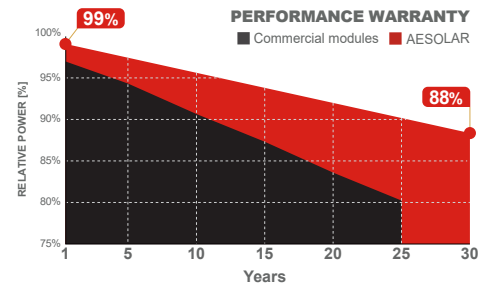
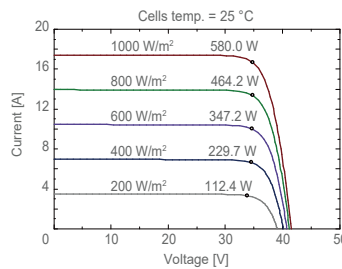


Packaging information

Packaging configuration	31 pcs / pallet
Loading capacity	620 pcs / 40 HQ
Size / Pallet	1130 mm x 1140 mm x 2500 mm (upright)
Weight	1040 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)	0.040
Nom. operating temp. NOCT	(°C)	44 ± 2



Electrical specifications (STC*): AE560TME-110BDS AE565TME-110BDS AE570TME-110BDS AE575TME-110BDS AE580TME-110BDS

Nominal Max. Power	P _{max} (Wp)	560	565	570	575	580
Maximum operating voltage	V _{MPP} (V)	34.17	34.35	34.53	34.71	34.88
Maximum operating current	I _{MPP} (A)	16.39	16.45	16.51	16.57	16.63
Open-circuit voltage	V _{oc} (V)	40.77	40.96	41.16	41.35	41.54
Short-circuit current	I _{sc} (A)	17.19	17.25	17.31	17.37	17.43
Module efficiency	η (%)	21.46	21.65	21.84	22.04	22.23
Power tolerance	(W)	0~+5				
Maximum system Voltage	(V)	1500				
Maximum series fuse rating	(A)	35				

*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*): AE560TME-110BDS AE565TME-110BDS AE570TME-110BDS AE575TME-110BDS AE580TME-110BDS

Nominal Max. Power	P _{max} (Wp)	420	423	427	431	435
Maximum operating voltage	V _{MPP} (V)	32.03	32.20	32.37	32.53	32.70
Maximum operating current	I _{MPP} (A)	13.11	13.16	13.21	13.26	13.30
Open-circuit voltage	V _{oc} (V)	38.18	38.38	38.59	38.79	39.00
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.