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RELIABILITY
DURABILITY

30
years

Performance
Warranty

15
years

Product
Warranty

315W-330W

AE MB-60E Series

MONO-CRYSTALLINE PV MODULES
FULL CELLS • MONO-FACIAL

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Ver. 24.1.1



FULL
CELLS



CELL
SIZE



LID
RESISTANT



PID
RESISTANT



SALT CORROSION
RESISTANT



SAND
RESISTANT



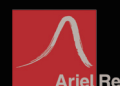
AMMONIA
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AE MB-60E Series 315W-330W



MONO-CRYSTALLINE PV MODULES
FULL CELLS • MONO-FACIAL

Mechanical and design specification

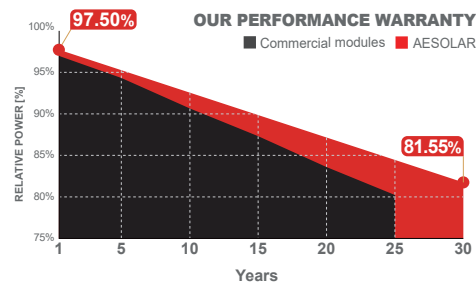
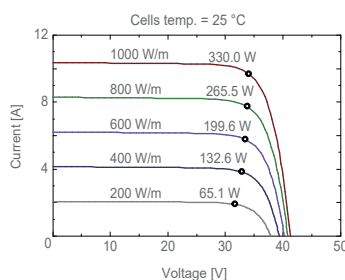
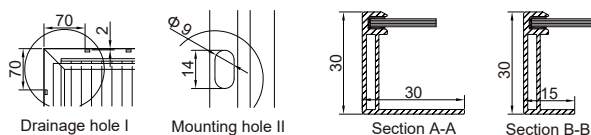
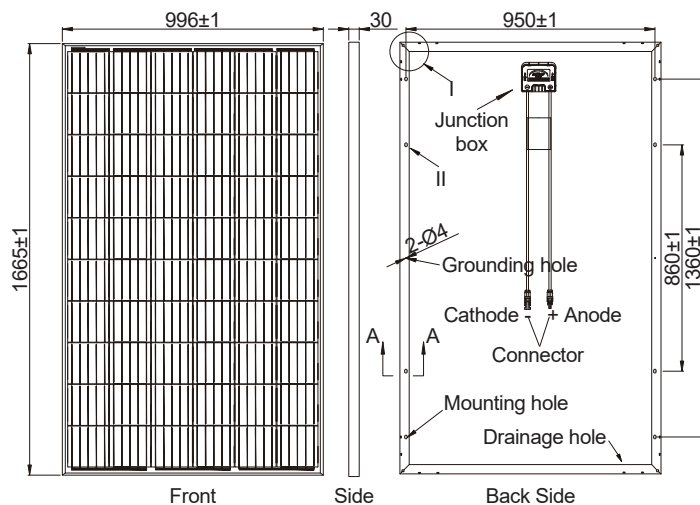
Cell type	Mono c-Si PERC, Full cells, 158.75mm
No. of cells	60
Front cover	3.2 mm glass, high transmission, AR coated, tempered
Encapsulation	EVA
Back cover	Black Backsheet
Junction box	IP68 rated, 3 Bypass Diodes
Frame	30 mm anodized Aluminium alloy
Cable	1 x 4 mm ² , 900 mm length or customized
Connectors	MC 4 / MC 4 compatible
Dimension	1665 mm x 996 mm x 30 mm
Weight	17.5 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	36 pcs / pallet
Loading capacity	1064 pcs / 40 HQ
Size / Pallet	1695 mm x 1140 mm x 1117.5 mm
Weight	666 kg / pallet

Temperature ratings

Operating temperature	(°C)	-40 to +85
Temp.coefficient of P_{max}	(%/°C)	-0.37
Temp.coefficient of V_{oc}	(%/°C)	-0.28
Temp.coefficient of I_{sc}	(%/°C)	0.048
Nom. operating temp. NOCT	(°C)	45 ± 2



Electrical specifications (STC*):		AE315MB-60E	AE320MB-60E	AE325MB-60E	AE330MB-60E
Nominal Max. Power	P_{max} (Wp)	315	320	325	330
Maximum operating voltage	V_{MPP} (V)	33.19	33.40	33.61	33.81
Maximum operating current	I_{MPP} (A)	9.50	9.59	9.68	9.76
Open-circuit voltage	V_{oc} (V)	40.70	40.90	41.10	41.31
Short-circuit current	I_{sc} (A)	10.10	10.15	10.20	10.37
Module efficiency	η (%)	18.99	19.30	19.60	19.90
Power tolerance	(W)	0~+5			
Maximum system Voltage	(V)	1500			
Maximum series fuse rating	(A)	15			

*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*):		AE315MB-60E	AE320MB-60E	AE325MB-60E	AE330MB-60E
Nominal Max. Power	P_{max} (Wp)	237	241	245	248
Maximum operating voltage	V_{MPP} (V)	31.20	31.40	31.60	31.80
Maximum operating current	I_{MPP} (A)	7.60	7.67	7.74	7.81
Open-circuit voltage	V_{oc} (V)	37.50	37.70	37.90	38.10
Short-circuit current	I_{sc} (A)	8.08	8.12	8.16	8.30

*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.