

Deutsche
Qualität
Garantiert



60

FULL
CELLS



SHADING
RESISTANT



HOT SPOT
RESISTANT



tested by
Fraunhofer
CSP

HSF

**SMART HOT-SPOT FREE
SHADING RESISTANT
TECHNOLOGY**

Maximizing the energy yield

30

years
Performance
Guarantee

30

years
Product
Warranty

30
years
Performance
Guarantee

30
years
Product
Warranty

MONO-CRYSTALLINE PV MODULES
FULL CELLS • MONO-FACIAL

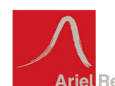
325W-335W

AE SMB-60 Series

* The concept of hot-spot-free module is tested and evaluated by Fraunhofer CSP under partial shading conditions.
The report can be found [here](#) and the peer-reviewed publication in Solar Energy Journal can be found [here](#)



IEC 61215
IEC 61730
Regular Production Surveillance
Type Tested and Monitored



www.ae-solar.com

AE SMB-60 Series 325W-335W

Mechanical and design specification

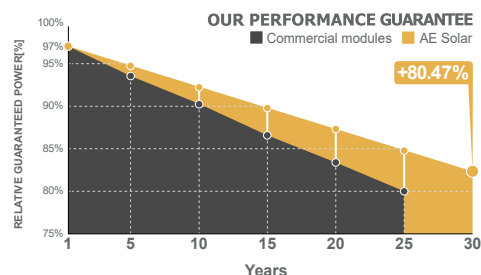
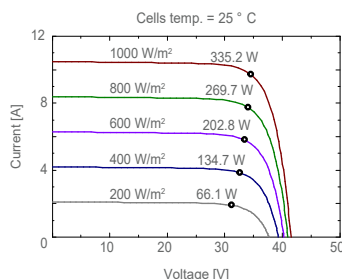
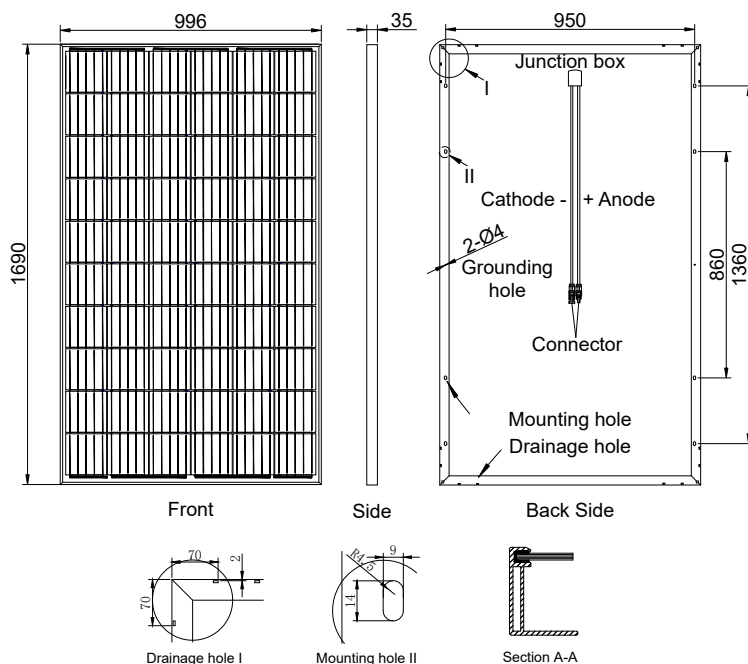
Cell type	Mono c-Si PERC, Full cells, 158.75mm
No. of cells	60
Glass	3,2 mm, high transmission, AR coated, tempered
Encapsulation	EVA
Back cover	White Backsheet
Junction box	IP 68 rated
Frame	35 mm anodized Aluminium alloy
Cable	1 x 4 mm ² , 900 mm length or customized
Connectors	MC 4 - EVO2
Dimension	1690 mm x 996 mm x 35 mm
Weight	19 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
Fire Rating	Class C (according to UL790)

Packaging information

Packaging configuration	66 pcs / double pallet
Loading capacity	858 pcs / 40 HQ
Size / Pallet	1725 mm x 1140 mm x 2395 mm
Weight	1355 kg / double pallets

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*):		AE325SMB-60	AE330SMB-60	AE335SMB-60
Nominal Max. Power	P_{max} (Wp)	325	330	335
Maximum operating voltage	V_{MPP} (V)	33.61	33.81	34.02
Maximum operating current	I_{MPP} (A)	9.68	9.76	9.85
Open-circuit voltage	V_{oc} (V)	41.10	41.31	41.49
Short-circuit current	I_{sc} (A)	10.20	10.37	10.49
Module efficiency	η (%)	19.31	19.61	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)
Power measurement tolerance: ± 3%

Electrical specifications (NMOT*):		AE325SMB-60	AE330SMB-60	AE335SMB-60
Nominal Max. Power	P_{max} (Wp)	245	248	252
Maximum operating voltage	V_{MPP} (V)	31.60	31.80	32.00
Maximum operating current	I_{MPP} (A)	7.74	7.81	7.88
Open-circuit voltage	V_{oc} (V)	37.90	38.10	38.30
Short-circuit current	I_{sc} (A)	8.16	8.30	8.39

*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)

Country of Manufacturer: China

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.