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SMART HOT-SPOT FREE SHADING RESISTANT TECHNOLOGY

Maximizing the energy yield





190W-200W AESMB-36 Series

MONO-CRYSTALLINE PV MODULES
FULL CELLS • MONO-FACIAL

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Ver. 24.1.1



FULL CELLS



SHADING RESISTANT



HOT SPOT RESISTANT



LID RESISTANT



RESISTANT



SALT CORROSION RESISTANT



SAND RESISTANT



AMMONIA RESISTANT



HIGHLY STABLE AND TOUGH













AE SMB-36 Series 190W-200W

MONO-CRYSTALLINE PV MODULES FULL CELLS • MONO-FACIAL



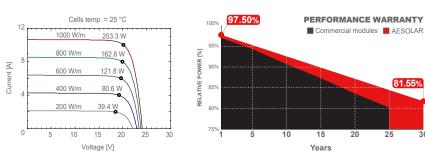
Mechanical and design specification			
Cell type	Mono c-Si PERC, Full cells, 158.75 mm		
No. of cells	36		
Front cover	3.2 mm glass, high transmission, AR coated, tempered		
Encapsulation	EVA		
Back cover	White Backsheet		
Junction box	IP68 rated, 2 Bypass Diodes		
Frame	30 mm anodized Aluminium alloy		
Cable	1 x 4 mm ² , 900 mm length or customized		
Connectors	MC 4 / MC 4 compatible		
Dimension	1530 mm x 680 mm x 30 mm		
Weight	10.8 kg		
Hail resistance	Max. Ø 25 mm at 23 m/s		
Wind load	2400 Pa or 244 kg/m²		
Snow load	5400 Pa or 550 kg/m²		

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680	0±1	30	635	i±1 ►	l
1530±1			Junctic II Cathode- Groundin hole	+ Anode g ector ng hole	700±1
Fr	ont	Side	Back	Side	
Prainage h	ole I Mounting	hole II	30 Section A-A	08 115 Section B-	В

Packaging information			
Packaging configuration	36 pcs / pallet		
Loading capacity	1512 pcs / 40 HQ		
Size / Pallet	1570 mm × 1140 mm × 880 mm		
Weight	424 kg / pallet		

0 to +85
-0.37
-0.28
0.048
45 ± 2



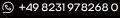
Electrical specificat	ions (STC*):	AE190SMB-36	AE195SMB-36	AE200SMB-36
Nominal Max. Power	P _{max} (Wp)	190	195	200
Maximum operating voltage	$V_{MPP}(V)$	19.92	20.33	20.75
Maximum operating current	I _{MPP} (A)	9.54	9.59	9.64
Open-circuit voltage	V _{oc} (V)	23.19	23.60	24.03
Short-circuit current	I _{sc} (A)	10.50	10.59	10.67
Module efficiency	η (%)	18.26	18.74	19.22
Power tolerance	(W)		0~+5	
Maximum system Voltage	(V)		1000	
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 Pmax: ±3%

Electrical specificat	ions (NMOT*):	AE190SMB-36	AE195SMB-36	AE200SMB-36
Nominal Max. Power	P _{max} (Wp)	135	137	140
Maximum operating voltage	V _{MPP} (V)	17.70	17.90	18.10
Maximum operating current	I _{MPP} (A)	7.63	7.67	7.71
Open-circuit voltage	V _{oc} (V)	21.50	21.70	21.90
Short-circuit current	I _{sc} (A)	8.40	8.47	8.54

^{*}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.



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