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HIGHERERGY YIELD RELIABILITY DURABILITY





485W-505W AE MD-132BD Series

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

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Ver. 24.1.1







CELL





RESISTANT





SALT CORROSION



SAND RESISTANT



AMMONIA



HIGHLY STABLE AND TOUGH

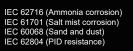








IEC 61215 IEC 61730 Regular Production Surveillance







AE MD-132BD Series 485W-505W





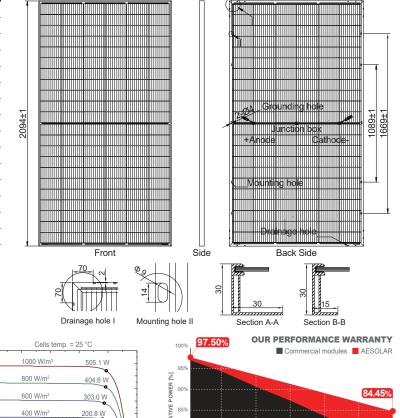
1086±1

Mechanical	and design specification
Cell type	Gallium-doped Mono c-Si PERC, Half-cut cells, 182 mm
No. of cells	132
Bifaciality	70 ± 5%
Front cover	2.0 mm glass, high transmission, AR coated, tempered
Encapsulation	POE
Back cover	2.0 mm, high transmission solar glass, tempered
Junction box	IP68 rated, 3 Bypass Diodes
Frame	30 mm anodized Aluminium alloy
Cable	1 x 4 mm ² , 350 mm length or customized
Connectors	MC 4 / MC 4 compatible
Dimension	2094 mm x 1133 mm x 30 mm
Weight	28 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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	<u> </u>
Packaging inform	ation
Packaging configuration	36 pcs / pallet
Loading capacity	792 pcs / 40 HQ
Size / Pallet	2125 mm x 1140 mm x 1245 mm
Weight	1048 kg / pallet

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



1133±1

Electrical specifications (STC*):		AE485MD-132BD	AE490MD-132BD	AE495MD-132BD	AE500MD-132BD	AE505MD-132BD
Nominal Max. Power	P _{max} (Wp)	485	490	495	500	505
Maximum operating voltage	V _{MPP} (V)	38.31	38.55	38.79	39.03	39.27
Maximum operating current	I _{MPP} (A)	12.66	12.71	12.76	12.81	12.86
Open-circuit voltage	V _{oc} (V)	45.75	46.05	46.34	46.64	46.93
Short-circuit current	I _{sc} (A)	13.42	13.47	13.52	13.57	13.62
Module efficiency	η (%)	20.44	20.65	20.86	21.07	21.29
Power tolerance	(W)			0~+5		
Maximum system Voltage	(V)			1500		
Maximum series fuse rating	(A)			30		

Voltage [V]

16

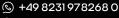
Current [A]

^{*}STC: Standard test conditions (Irradiance 1000 W/m², Cell temperature 25°C and air mass of AM1.5), measurement tolerance Pmax: ±3%

Electrical specifications (NMOT*):		AE485MD-132BD	AE490MD-132BD	AE495MD-132BD	AE500MD-132BD	AE505MD-132BD
Nominal Max. Power	P _{max} (Wp)	363	366	370	373	377
Maximum operating voltage	V _{MPP} (V)	35.80	36.00	36.20	36.40	36.60
Maximum operating current	I _{MPP} (A)	10.13	10.17	10.21	10.25	10.29
Open-circuit voltage	V _{oc} (V)	43.00	43.20	43.40	43.60	43.80
Short-circuit current	I _{sc} (A)	10.74	10.78	10.82	10.86	10.90

^{*}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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Years