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AURORA

HIGHERERGY YIELD RELIABILITY DURABILITY





640W-660WAE ME-132BS Series

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

www.ae-solar.com

Ver. 24.1.1



HALF CELLS



CELL



LID



PID RESISTANT



SALT CORROSION



SAND RESISTANT



AMMONIA



HIGHLY STABLE AND TOUGH

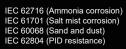








IEC 61215 IEC 61730 I Regular Production Surveillance I www.tuv.com







AE ME-132BS Series 640W-660W

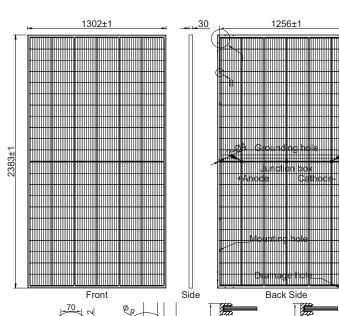


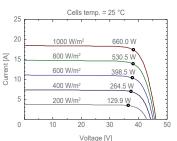


Mechanical	and design specification
Cell type	Gallium-doped Mono c-Si PERC, Half-cut cells, 210 mm
No. of cells	132
Front cover	3.2 mm glass, high transmission, AR coated, tempered
Bifaciality	70 ± 5%
Encapsulation	EVA
Back cover	Transparent Backsheet
Junction box	IP68 rated, 3 Bypass Diodes
Frame	30 mm anodized Aluminium alloy
Cable	1 x 4 mm ² , 350 mm length or customized
Connectors	MC 4 / MC 4 compatible
Dimension	2383 mm x 1302 mm x 30 mm
Weight	31.5 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

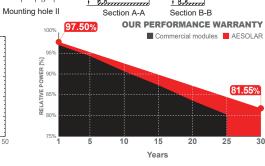
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23 IIIII at 23 III/3	
Pa or 244 kg/m²	
Pa or 550 kg/m²	
nation	
36 pcs / pallet	
612 pcs / 40 HQ	
1350 mm x 1140 mm x 2500 mm (Upright)	
1167 kg / pallet	





Drainage hole I



30

1089±1 1669±1

Temperature ratings		
Operating temperature	(°C)	-40 to +85
Temp.coefficient of P _{max}	(%/°C)	-0.34
Temp.coefficient of Voc	(%/°C)	-0.25
Temp.coefficient of I _{sc}	(%/°C)	0.040
Nom. operating temp. NOCT	(°C)	43 ± 2
		_

1167 kg / pallet

Packaging information Packaging configuration 36 pcs / pallet

Loading capacity

Size / Pallet

Weight

Electrical specificat	ions (STC*):	AE640ME-132BS	AE645ME-132BS	AE650ME-132BS	AE655ME-132BS	AE660ME-132BS
Nominal Max. Power	P _{max} (Wp)	640	645	650	655	660
Maximum operating voltage	V _{MPP} (V)	37.00	37.20	37.40	37.60	37.80
Maximum operating current	I _{MPP} (A)	17.30	17.34	17.38	17.42	17.46
Open-circuit voltage	V _{oc} (V)	45.10	45.30	45.50	45.70	45.90
Short-circuit current	I _{sc} (A)	17.74	18.25	18.32	18.38	18.43
Module efficiency	η (%)	20.63	20.79	20.95	21.11	21.27
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 Pmax: ±3%

Electrical specificat	ions (NMOT*):	AE640ME-132BS	AE645ME-132BS	AE650ME-132BS	AE655ME-132BS	AE660ME-132BS
Nominal Max. Power	P _{max} (Wp)	480	484	488	492	496
Maximum operating voltage	V _{MPP} (V)	34.70	34.90	35.10	35.30	35.50
Maximum operating current	I _{MPP} (A)	13.84	13.87	13.90	13.94	13.97
Open-circuit voltage	V _{oc} (V)	42.00	42.20	42.40	42.60	42.80
Short-circuit current	I _{sc} (A)	14.19	14.60	14.66	14.70	14.74

^{*}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

