

Timely Contacts: 7/24 Whatsapp: 008613823653608

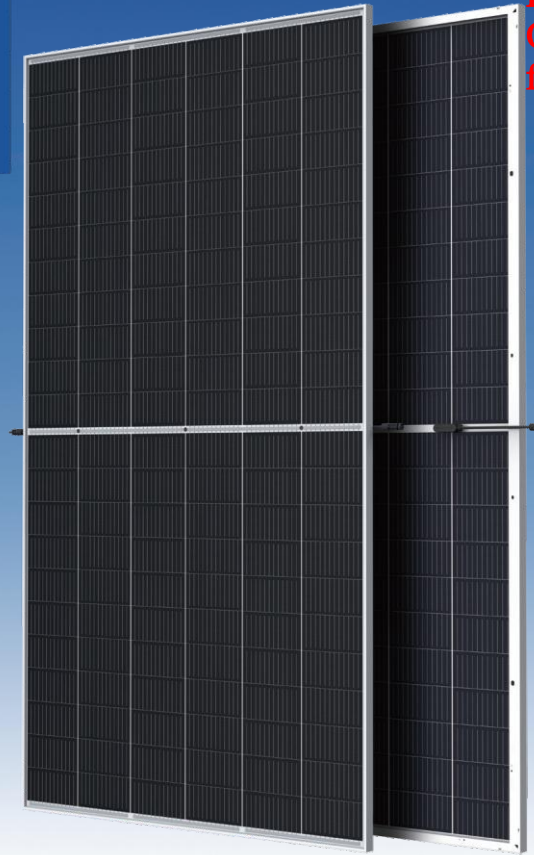
Payment Term:
D/P
D/A
O/A
flexible and negotiable



AFT-M12/132G

Monocrystalline Module

645-675W



675W
Maximum Power Output

21.7%
Maximum Module Efficiency

0~+5W
Power Output Guarantee

Cell Type



12BB(210mm)



Ideal choice for large scale ground installation



High conversion efficiency due to top quality wafers and advanced cell technology



Selected encapsulating material and stringent production process control ensure the product is highly PID resistant and snail trails free



Additional safety, Fire class Acertified



Withstand up to 1500V system voltage effectively reduce BOS cost

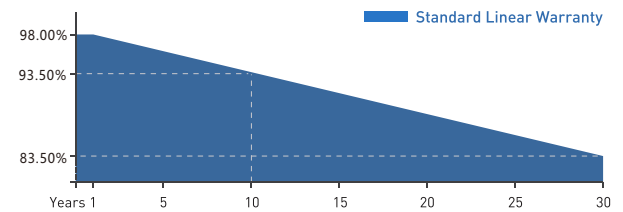


Sand blowing test, salt mist test and ammonia test passed to endure harsh environments

Deliver Reliable Performance Over Time

- manufacturer of crystalline silicon photovoltaic modules
- Fully automatic facility and world-class technology
- Rigorous quality control to meet the highest standard: ISO9001:2015, ISO14001: 2015 and OHSAS: 18001 2007
- Tested for harsh environments (salt mist, ammonia corrosion and sand blowing test: IEC 61701, IEC 62716, DIN EN 60068-2- 68)
- Long term reliability tests
- 2x100% EL inspection ensuring defect-free modules

Linear Performance Warranty



12 Years Product Warranty 30 Years Linear Power Warranty

* Please refer to standard warranty for details

Product Certification



AFT-M12/132G

Monocrystalline Module

645-675W

Electrical Specification (STC*)

Parameter	Symbol	645	650	655	660	665	670	675	
Maximum Power	P _{max} (W)	645	650	655	660	665	670	675	
Maximum Power Voltage	V _{mp} (V)	37.2	37.4	37.6	37.8	38.0	38.2	38.4	
Maximum Power Current	I _{mp} (A)	17.34	17.38	17.42	17.46	17.50	17.54	17.58	
Open Circuit Voltage	V _{oc} (V)	45.0	45.2	45.4	45.6	45.8	46.0	46.2	
Short Circuit Current	I _{sc} (A)	18.41	18.46	18.50	18.55	18.60	18.65	18.70	
Module Efficiency	(%)	20.7	20.9	21.0	21.2	21.4	21.5	21.7	
Power Output Tolerance	(W)	0~+5							

* Irradiance 1000W/m², Module Temperature 25°C, Air Mass 1.5

Electrical Specification (NOCT*)

Parameter	Symbol	488	492	496	500	504	509	513
Maximum Power	P _{max} (W)	488	492	496	500	504	509	513
Maximum Power Voltage	V _{mp} (V)	34.7	34.9	35.1	35.3	35.5	35.7	35.9
Maximum Power Current	I _{mp} (A)	14.05	14.09	14.13	14.18	14.22	14.27	14.31
Open Circuit Voltage	V _{oc} (V)	42.4	42.6	42.8	43.0	43.2	43.4	43.6
Short Circuit Current	I _{sc} (A)	14.81	14.85	14.88	14.92	14.96	15.00	15.04

* Irradiance 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s

Electrical characteristics with different power

Power Level	Parameter	645W	650W	655W	660W	665W	670W	675W
5%	Maximum Power P _{max} (W)	677.2	682.5	687.7	693.0	698.2	703.7	708.7
	Module Efficiency (%)	21.79	21.96	22.13	22.29	22.46	22.63	22.80
15%	Maximum Power P _{max} (W)	741.7	747.5	753.2	759.0	764.7	770.5	776.2
	Module Efficiency (%)	23.86	24.05	24.23	24.42	24.60	24.79	24.97
25%	Maximum Power P _{max} (W)	806.2	812.5	818.7	825.0	831.2	837.5	843.7
	Module Efficiency (%)	25.94	26.14	26.34	26.54	26.74	26.94	27.15

Mechanical Data

Number of Cells	132 Cells (6×22)
Dimensions of Module L*W*H (mm)	2385×1303×35mm (93.85×51.29×1.38 inches)
Weight (kg)	38.7kg
Front Side Glass	High transparency solar glass 2.0mm (0.08 inches)
Back Side Glass	High transparency solar glass 2.0mm (0.08 inches)
Frame	Silver, anodized aluminium alloy
J-Box	IP68 Rated
Cable	4.0mm ² (0.006 inches ²), 300mm (11.8 inches)
Number of diodes	3
Wind/ Snow Load	2400Pa/ 5400Pa*
Connector	MC Compatible
Bifaciality	70±5%

* For more details please check the installation manual

Temperature Ratings

Nominal Operating Cell Temperature [NOCT]	43±2°C
Temperature Coefficient of I _{sc}	+0.040%/°C
Temperature Coefficient of V _{oc}	-0.250%/°C
Temperature Coefficient of P _{MAX}	-0.340%/°C

Maximum Ratings

Operational Temperature	-40~+85°C
Maximum System Voltage	1500V DC -(H)
Max Series Fuse Rating	30A

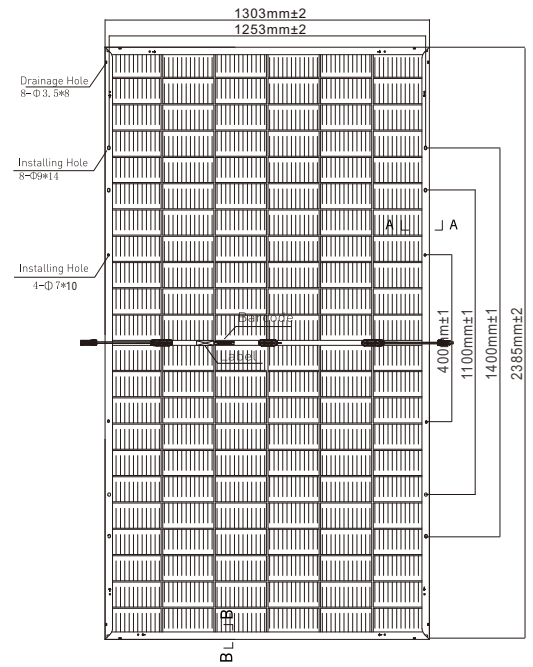
Packaging Configuration

Module per box	31 pieces
Module per 40' container	558 pieces

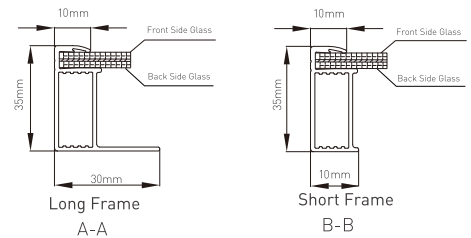
Optional

Connector	<input checked="" type="checkbox"/> MC Original
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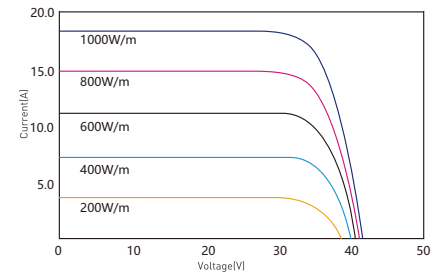
Module Dimension



Back View



I-V Curve at Different Temperature (645W)



P-V Curve at Different Irradiation (645W)

