

AURO^P

Mono Bifacial Dual Glass Module

645-675W **MSBK-33**

Key Product Features



High conversion efficiency

Using 210mm size Mono wafer
Module power output up to 21.73%



Bifacial design

Double-sided power generation
Power gain up to 5%~25%



Low temperature coefficient

Peak power temperature coefficient
Excellent power generation performance in high temperature environment



Excellent low-light performance

Better low-light power generation performance in low radiation environment such as haze and cloudy days



Higher mechanical load capacity

Adopt high-strength aluminum alloy frame
Mechanical performance up to 5400 Pa positive load and 2400 Pa negative load



High compatibility

Excellent system compatibility
Adapt to mainstream inverter and tracker



Wide applicability

Harsh environments
Wider range of application



Low LCOE (Levelized Cost of Energy)

The cost of BOS reduced by 1.48%
LCOE reduced by 1.27%

Comprehensive product certification

- IEC61215-1(ed.1)
- IEC61215-1-1(ed.1)
- IEC61215-2(ed.1)
- IEC61730-1(ed.2)
- IEC61730-2(ed.1)
- UL 61730-1 1st Edition
- UL 61730-2 1st Edition

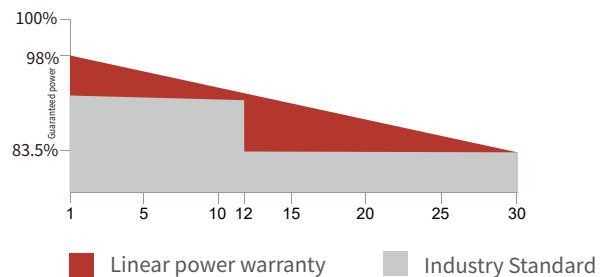


Industry-leading Quality Assurance

12 year
Product warranty

30 year
Linear power warranty

-0.50%
Annual degradation



● Please refer to the warranty letter for details



Solar Power



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Electrical Data(STC*)

Module Type: MSBK-33	645	650	655	660	665	670	675
Rate Maximum Power(Pmax)(W)	645	650	655	660	665	670	675
Open Circuit Voltage(Voc) (V)	45.32	45.45	45.58	45.72	45.85	45.98	46.11
Short Circuit Current(Isc) (A)	18.13	18.17	18.21	18.24	18.27	18.33	18.38
Maximum Power Voltage(Vmp)(V)	37.77	37.86	37.95	38.04	38.12	38.21	38.31
Maximum Power Current (Imp) (A)	17.10	17.18	17.27	17.36	17.45	17.54	17.63
Module Efficiency (%)	20.76	20.92	21.10	21.26	21.41	21.57	21.73

*Standard Test Conditions (STC) : irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C

Electrical Data(NMOT*)

Module Type: MSBK-33	645	650	655	660	665	670	675
Rate Maximum Power(Pmax)(W)	482.9	486.7	490.2	493.8	497.6	501.5	505.6
Open Circuit Voltage(Voc) (V)	42.5	42.6	42.7	42.9	43.0	43.10	43.20
Short Circuit Current(Isc) (A)	14.62	14.66	14.69	14.71	14.73	14.78	14.82
Maximum Power Voltage(Vmp)(V)	34.90	35.10	35.20	35.40	35.60	35.70	35.90
Maximum Power Current (Imp) (A)	13.82	13.87	13.91	13.95	13.99	14.04	14.09

*Nominal Module Operating Temperature (NMOT):irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

Operational Parameter

Operating Temperature	-40°C~+85°C				
NMOT (Nominal Module Operating Temperature)	45°C±2°C				
Maximum System Voltage(V)	1500V DC				
Maximun Fuse Current Rating(A)	35A				
Fire Safety	Class C				
Power Tolerance	0~+5W				
Bifacial Factor	70±5%				
PG. 660W	5%	10%	15%	20%	25%
Rate Maximum Power(Pmax)(W)	693	726	759	792	825
Open Circuit Voltage(Voc) (V)	45.72	45.72	45.72	45.72	45.72
Short Circuit Current (Isc) (A)	19.15	20.07	20.98	21.89	22.80
Maximum Power Voltage(Vmp)(V)	38.04	38.04	38.04	38.04	38.04
Maximum Power Current(Imp) (A)	18.23	19.09	19.96	20.83	21.70

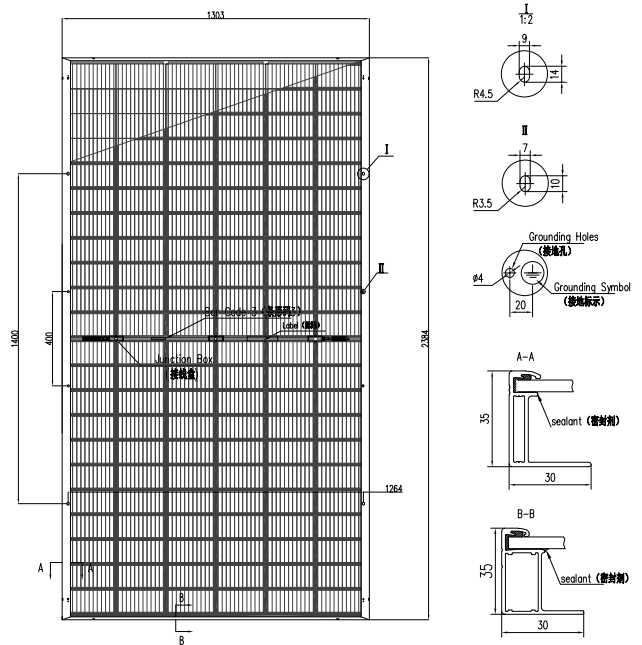
Mechanical Properties

Cell Type	P - type Mono-crystalline
Number of Cells	132
Dimension of Module	2384*1303*35mm
Weight	38.7kg± 5%
Front Glass	2.0mm semi-tempered glass with AR Coating
Back Glass	2.0mm semi-tempered grid printing glass
Frame	Anodized aluminum alloy
Junction Box	IP68(3 Diodes)
Cable Length	+320mm, -260mm(4.0mm ²) ; or Customized Length
Packing Information	558(31*18)pcs per 40'HQ

Temperature Coefficient

Peak Power Temperature Coefficient	-0.328%/°C
Open-Circuit Voltage Temperature Coefficient	-0.254%/°C
Short-Circuit Current Temperature Coefficient	0.041%/°C

Drawing



I-V curve

