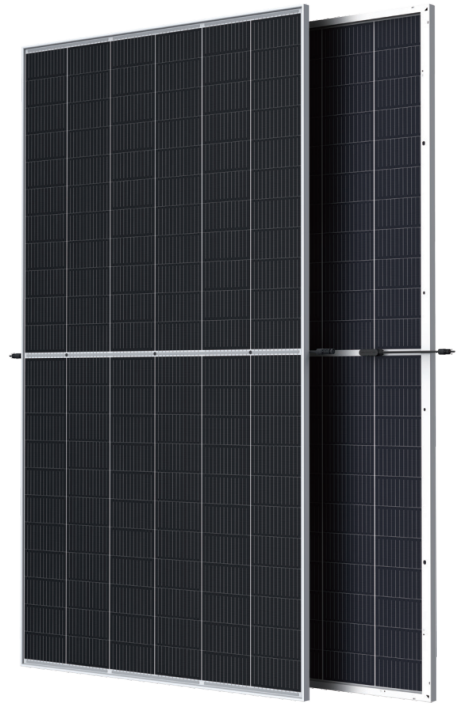
HISAMA

OH-M12/132G

HALF-CELL BIFACIAL 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

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Additional safety, Fire class Acertified

Withstand up to 1500V system voltage effectively reduce BOS cost

Sand blowing test, salt mist test and ammonia test pass to endure harsh environmen

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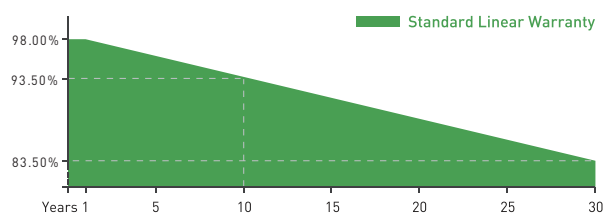
Deliver Reliable Performance Over Time

- 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
- 2×100% 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

www.ohisamasolar.com

OH-M12/132G

645-675W

Monocrystalline Module

Electrical Specification (STC*)

Maximum Power	Pmax(W)	645	650	655	660	665	670	675
Maximum Power Voltage	Vmp(V)	37.2	37.4	37.6	37.8	38.0	38.2	38.4
Maximum Power Current	Imp(A)	17.34	17.38	17.42	17.46	17.50	17.54	17.58
Open Circuit Voltage	Voc(V)	45.0	45.2	45.4	45.6	45.8	46.0	46.2
Short Circuit Current	Isc(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℃, Air Mass 1.5

Electrical Specification (NOCT*)

Maximum Power	Pmax(W)	488	492	496	500	504	509	513
Maximum Power Voltage	Vmp(V)	34.7	34.9	35.1	35.3	35.5	35.7	35.9
Maximum Power Current	Imp(A)	14.05	14.09	14.13	14.18	14.22	14.27	14.31
Open Circuit Voltage	Voc(V)	42.4	42.6	42.8	43.0	43.2	43.4	43.6
Short Circuit Current	Isc(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

5%	Maximum Power Pmax (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 Pmax (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 Pmax (W)	806.2	812.5	818.7	825.0	831.2	837.7	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 (6x22)
Dimensions of Module L *W*H (mm)	2385x1303x35mm (93.85 x51.29x 1.38 inches)
Weight (kg)	38.7 kg
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	4.0mm² (0.006 inches²), 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 Isc	+0.040%/°C
Temperature Coefficient of Voc	-0.250%/°C
T emperature 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

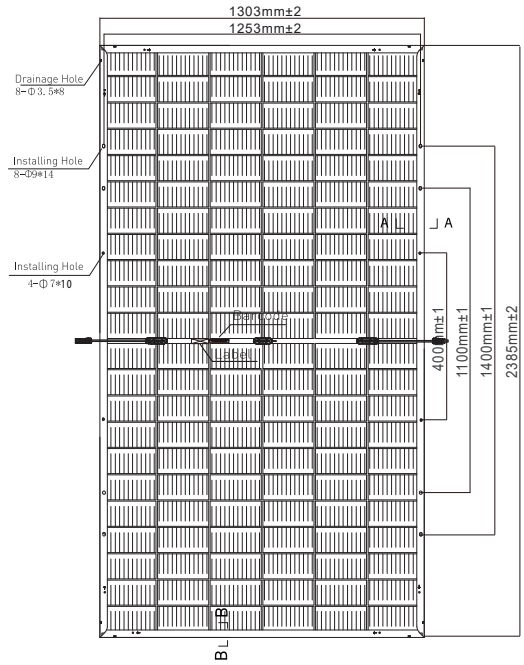
Packaging Configuration

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

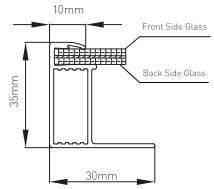
Optional

Connector	MC Original

Module Dimension

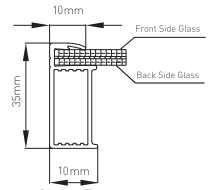


Back View



Long Frame

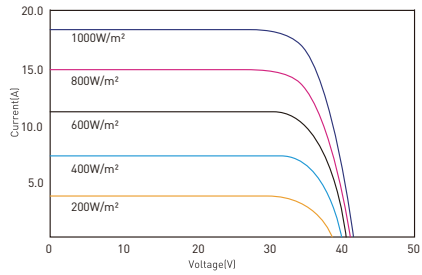
A A



Short Frame

B-B

I-V Curve at Different Temperature (645W)



P-V Curve at Different Irradiation(645W)