





60pieces	280-310W
Mono Double Glass Module	Power Output Range

18.8%	0~+5W
Maximum Efficiency	Power Tolerance


Product Specifications Book

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PID free module
Anti-PID cell technology
Anti-PIDencapsulation technology

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UL 1703, IEC 61215, IEC 61730and CE
ISO 9001 for Quality Management Systems
ISO 14001 for Environmental Management Systems
ISO 18001 Occupational Health and Safety System

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Lower annual power degradation and current sorting reduces the mismatch power loss in system operation

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Improve safety
1000VDC (UL) / 1000VDC (TUV) certified
2 EL inspections per cell/module for defect-free consistency

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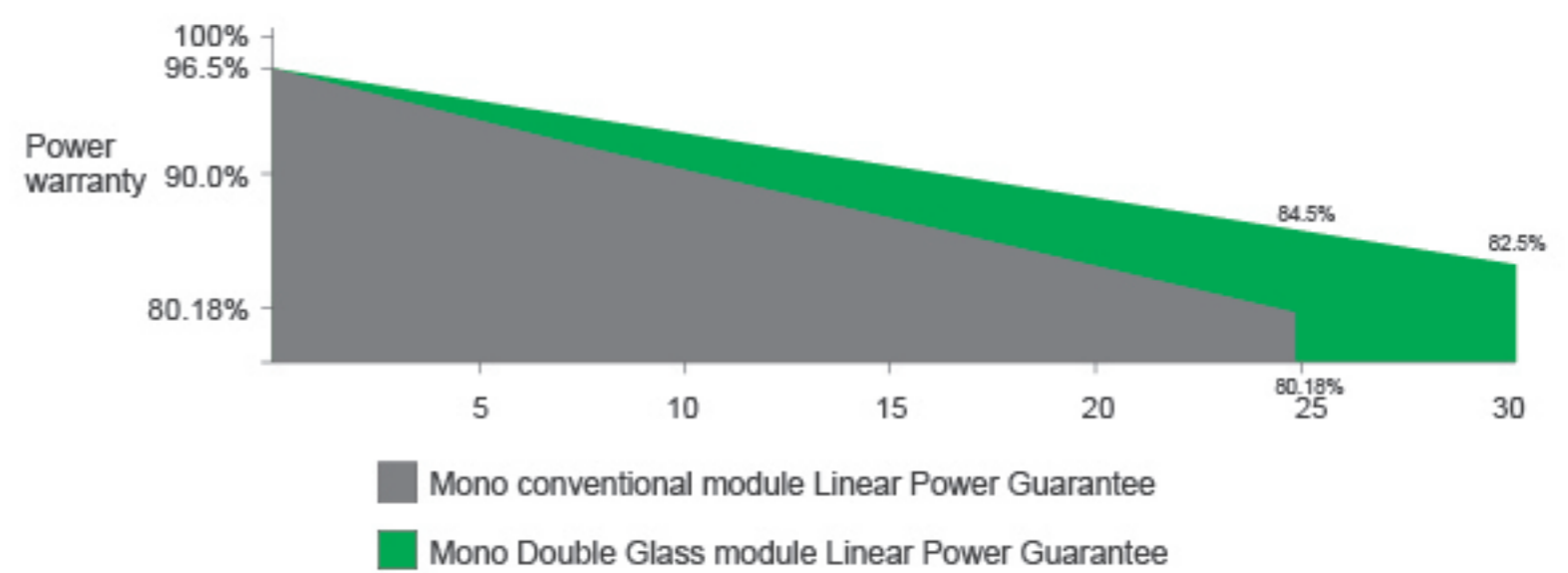
Load certificates: wind to 2400Pa
and snow to 5400Pa

To satisfy customer various demand and reduce the installing cost, modules can be fixed additionally with frames, hooks, integrated junction-box, three-section junction-box to suit with differentsituations both for using and installing ,such as BIPV,verticalto the ground,high humidity, strong wind with sand etc



MONO DOUBLE GLASS MODULE LINEAR POWER GUARANTEE

15 years extra product warranty option

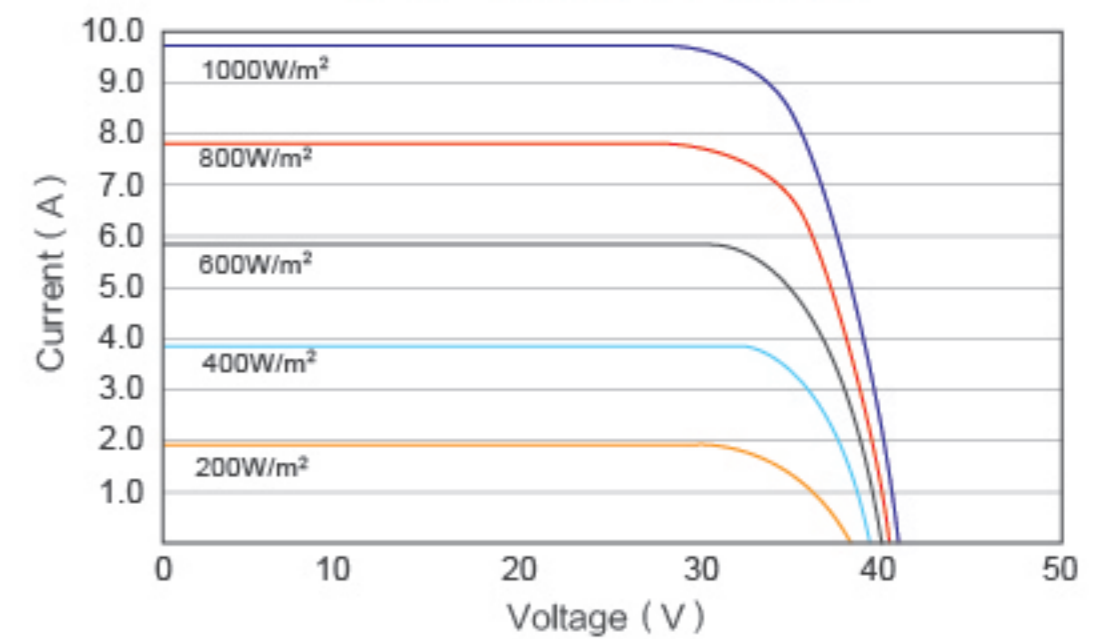


Munich RE Insurance Global Coverage

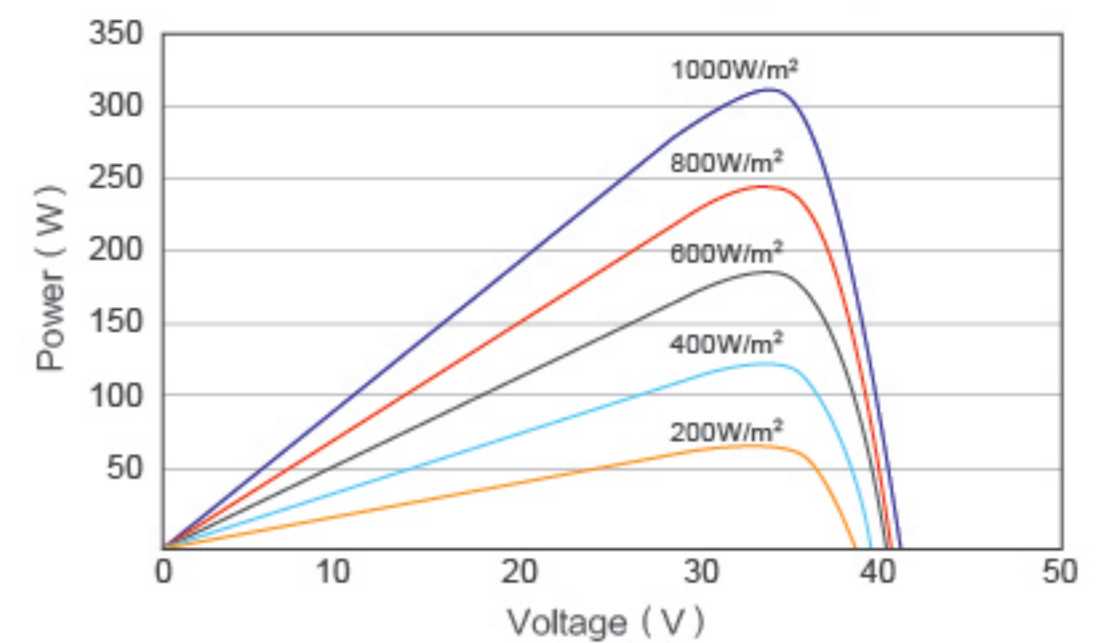
Electrical Specifications (standard test conditions)

Maximum Power -P _{MAX} (Wp)	280	285	290	295	300	305	310
Power Tolerance -P _{MAX} (W)	0 ~ +5						
Maximum power point of operating voltage-VMPP (V)	31.7	31.8	32.2	32.5	32.6	32.9	33.1
Maximum power point of operating current -IMPP (A)	8.84	8.97	9.01	9.08	9.19	9.28	9.37
Open circuit voltage -V _{oc} (V)*	38.4	38.5	38.9	39.6	39.8	40.0	40.2
Short circuit current - I _{sc} (A)	9.42	9.51	9.66	9.68	9.77	9.85	9.94
Module Efficiency η_m (%)	17.0	17.3	17.6	17.9	18.2	18.5	18.8
Standard test conditions under Measured Value:(air quality AM1.5, Irradiance 1000W / m ² , cell temperature 25 ° C)							

I-V Curves (305)



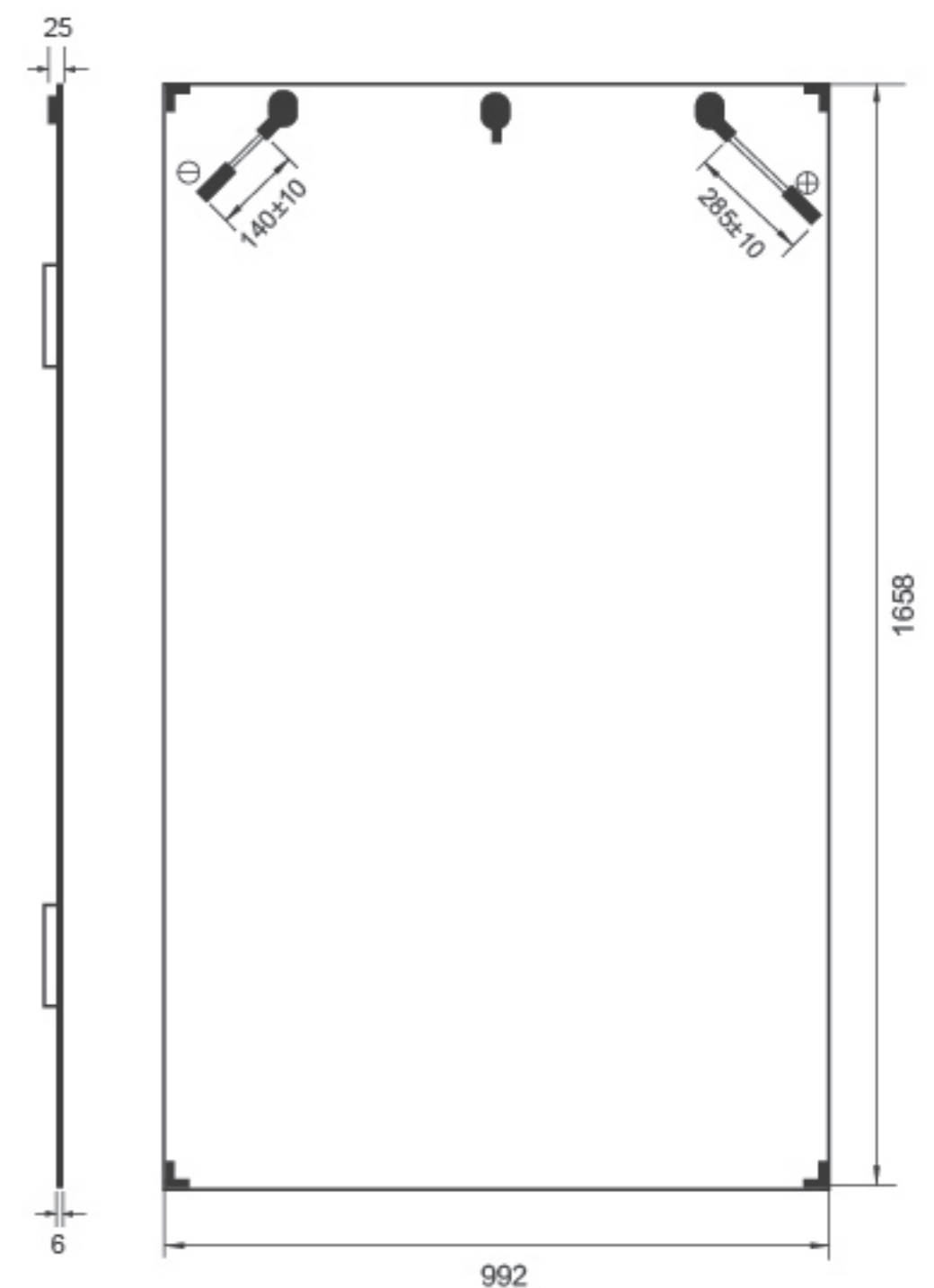
P-V Curves (305)



Electrical Index (under nominal operating cell temperature conditions)

Maximum Power-P _{MAX} (Wp)	209	212	216	220	223	227	231
Maximum power point of operating voltage -VMPP (V)	29.4	29.5	29.9	30.1	30.2	30.5	30.7
Maximum power point of operating current -IMPP (A)	7.10	7.21	7.24	7.30	7.38	7.46	7.53
Open circuit voltage -V _{oc} (V)*	35.7	35.8	36.2	36.8	37.0	37.2	37.4
Short circuit current - I _{sc} (A)	7.61	7.68	7.80	7.82	7.89	7.95	8.03
NOCT: Irradiance 800W / m ² , ambient temperature of 20 ° C, wind speed 1m / s							

Temperature Rating		Limit parameter	
Nominal Operating Cell Temperature (NOCT)	44°C (±2°C)	Working Temperature	-40~+85°C
Maximum power (P _{MAX}) Temperature Coefficient	- 0.39%/°C	Maximum fuse rated Current	15A
Open-circuit voltage (V _{OC}) Temperature Coefficient	- 0.29%/°C	Maximum system voltage	1000VDC (UL)
Short circuit current (I _{SC}) Temperature Coefficient	0.05%/°C	Maximum system voltage	1000VDC (TUV)



Mechanical Specifications

Solar cell Type	156.75mm × 156.75mm Mono-crystalline
Number of Cells	1 module 60pieces (6 × 10)
Dimensions	1658*992*6 mm 65.28*39.06*0.24 inch 1662*996*6 mm 65.43*39.21*0.24 inch 1664*998*7.6 mm 65.51*39.29*0.30 inch
Weight	19.5 kg
Glass	2.0mm High transparency, anti-reflective coatings toughened glass
Junction Box	Protection level IP 68
Cable	4.0 mm ² Photovoltaic dedicated cables, (140/285mm _1200/1200mm)
Connector	MC4 compatible

Warranty

- 10-year warranty for product
- 30-year warranty for linear power
- *Please refer to product warranty for details

Packaging Method

- Modules per box: 33 pcs
- Modules per 40 ft container: 858 pcs
- *Installation depends on the mechanical load