

ALTAIR

600-645Wp



MAXIMUM EFFICIENCY %	CELL TYPE	PRODUCT WARRANTY	PERFORMANCE WARRANTY
23.07	Topcon Bifacial 16BB	12 YEARS	25 YEARS



Made in India within a state-of-the-art module production facility.



Better Temperature Coefficient



Certified by BIS & ALMM



Better Output In Low Irradiance



PID resistant module.



IP68 rated junction box.

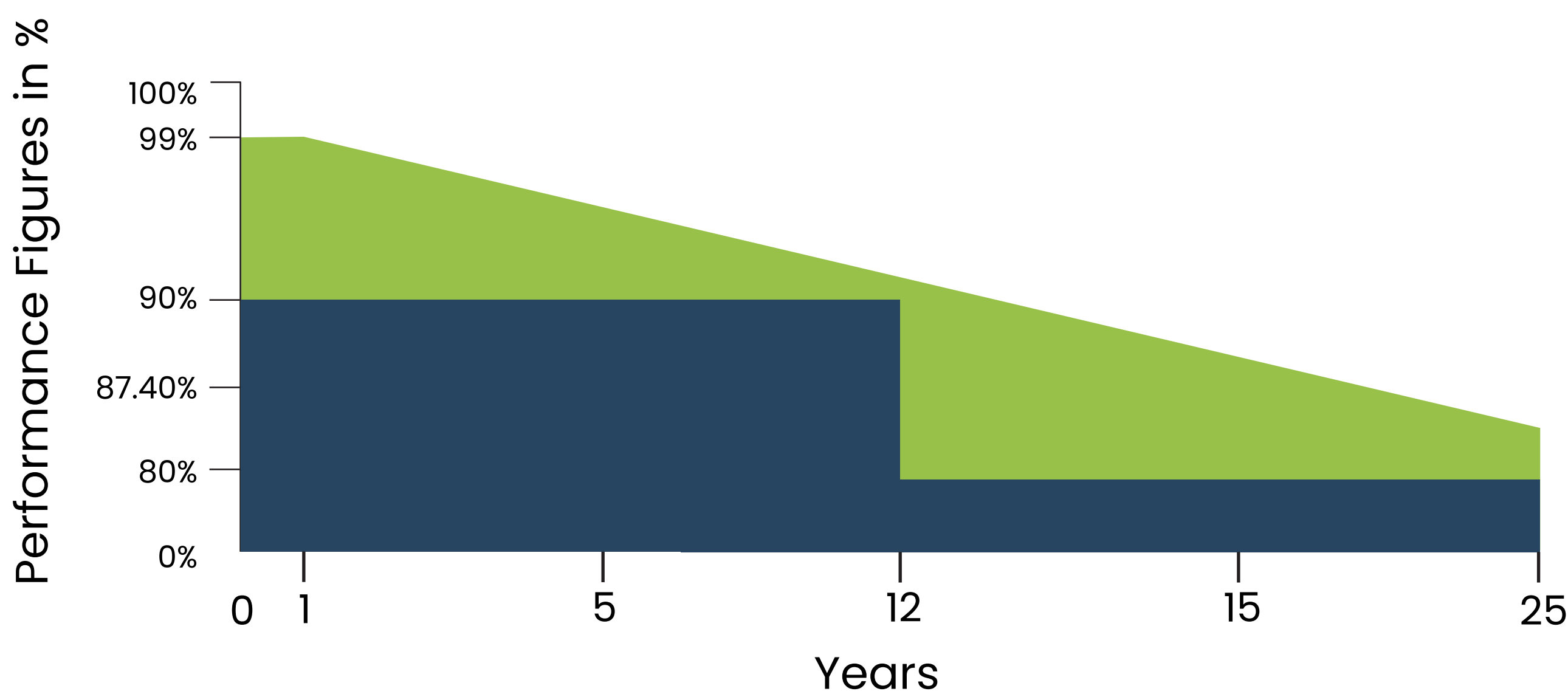


Model: SW-DG156THC-645W

CERTIFICATES



Performance Warranty

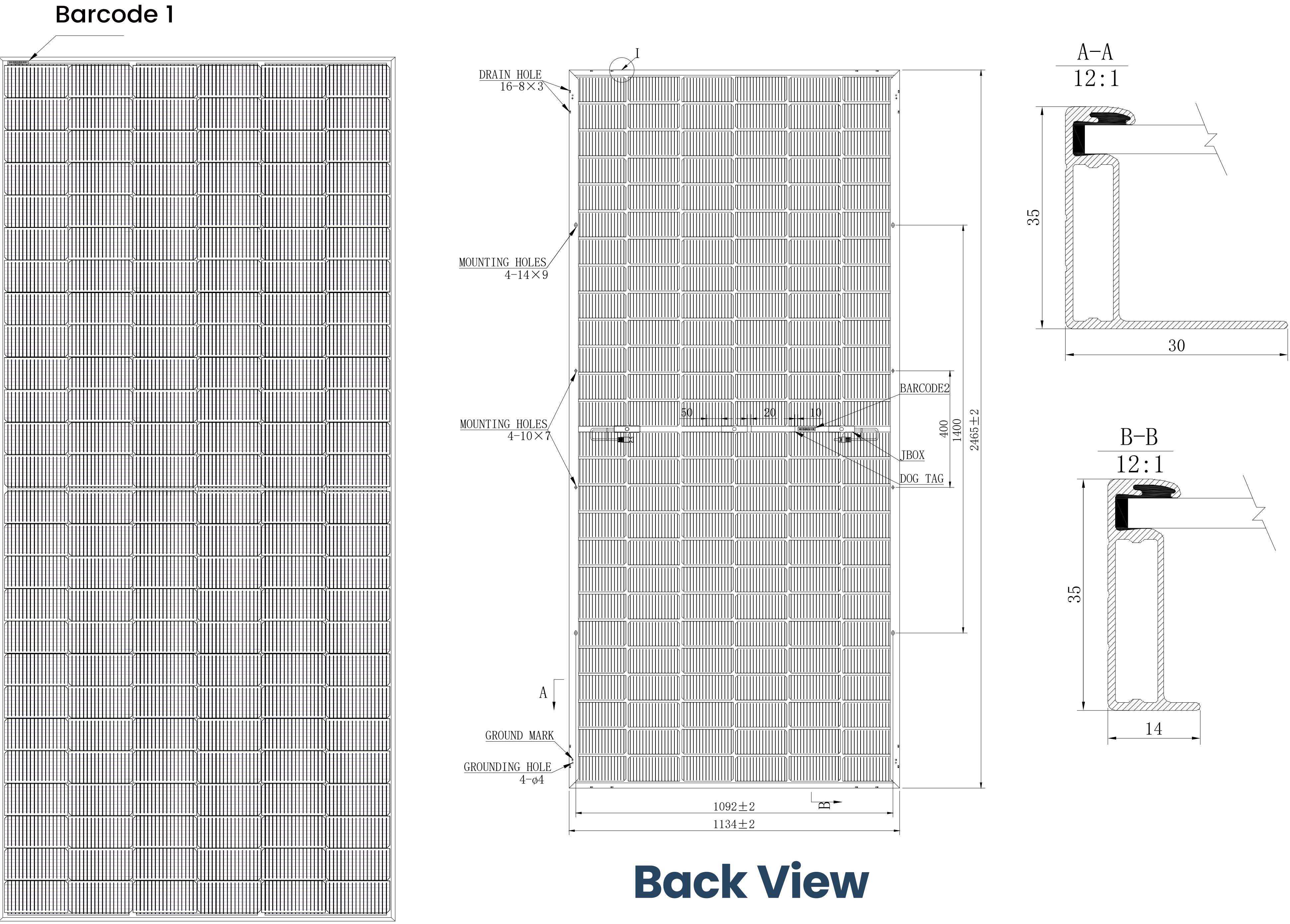


Bifacial Glass to Glass

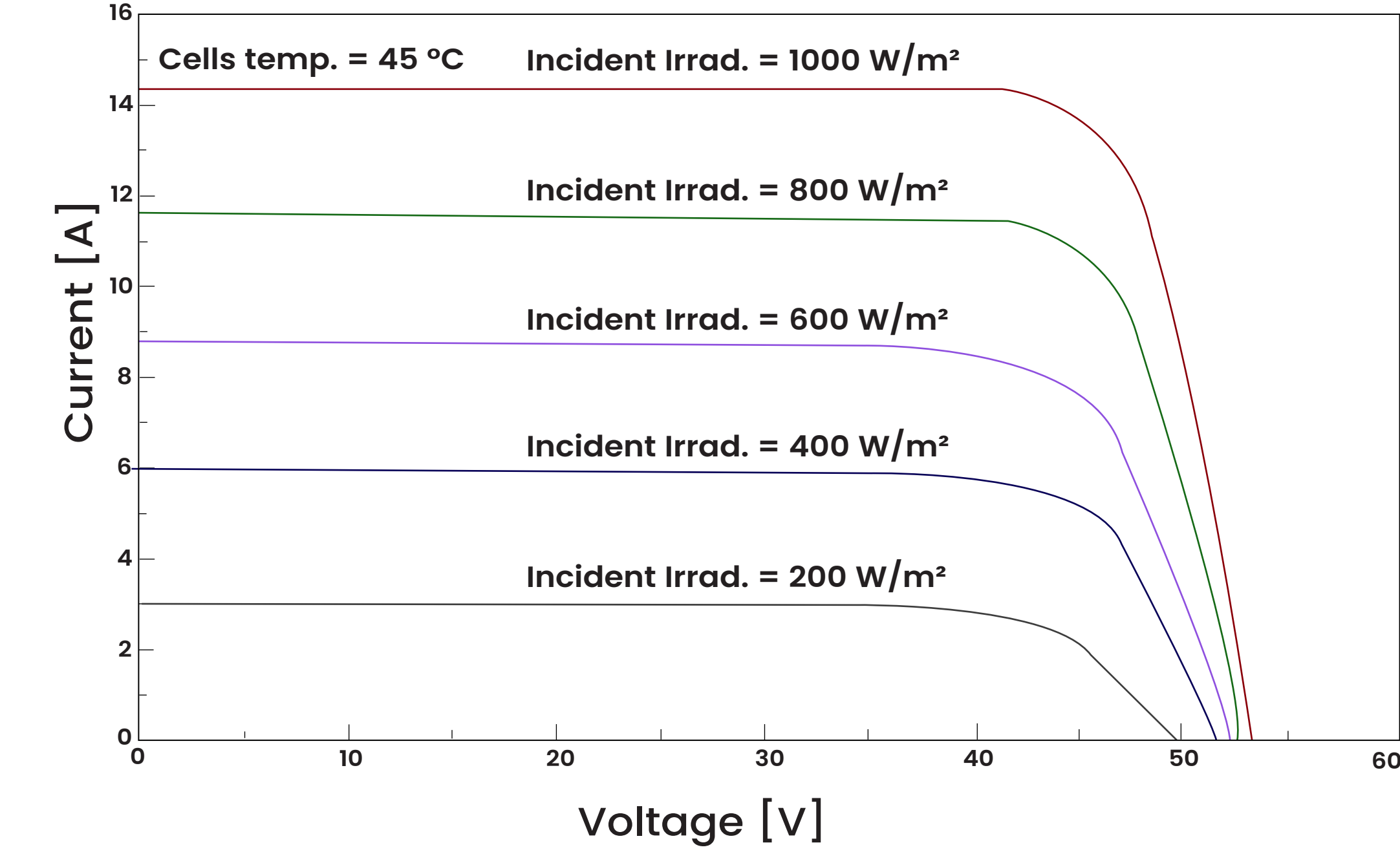
Performance under standard test conditions STC (1000w/m² AM 1.5, 25°C)



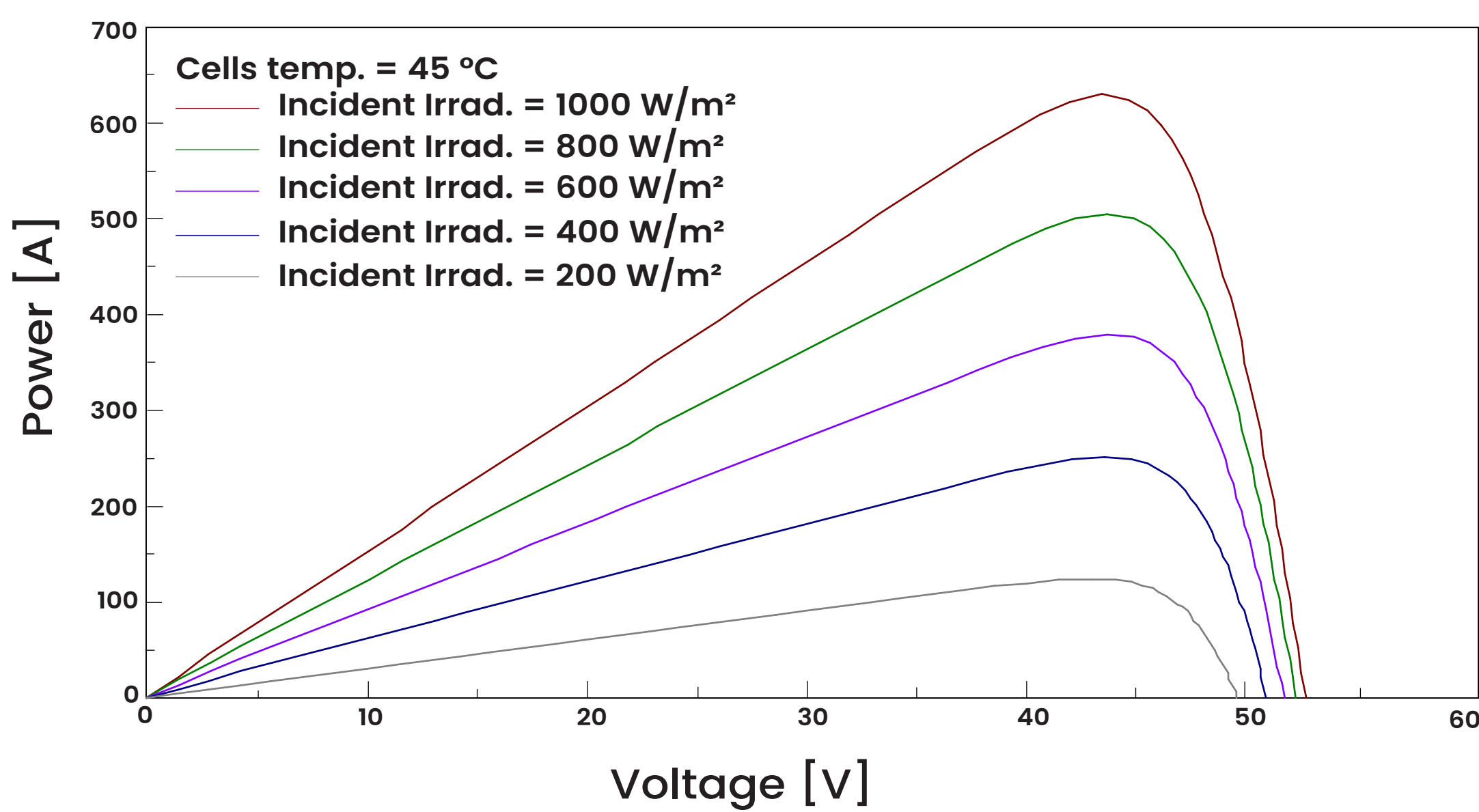
Dimensions of PV Module (mm)



I-V Curves of PV Module (645W)



P-V Curves of PV Module (645W)



Electrical Characteristics STC*							
Nominal Power Watt Pmax(W)*	615	620	625	630	635	640	645
Maximum Power Voltage Vmp(V)	45.80	46.00	46.20	46.40	46.60	46.80	47.00
Maximum Power Current Imp(A)	13.43	13.48	13.53	13.58	13.63	13.68	13.73
Open Circuit Voltage Voc(V)	55.40	55.60	55.80	56.00	56.20	56.40	56.60
Short Circuit Current Isc(A)	14.19	14.25	14.31	14.37	14.43	14.49	14.55
Module Efficiency (%)	22.00	22.18	22.36	22.54	22.72	22.90	23.07

*The data above is for reference only and the actual data is in accordance with the practical testing
*STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25±2°C, AM 1.5
*Measuring uncertainty: ±3%.

Electrical Characteristics NMOT							
Maximum Power Pmax(Wp)	464.69	468.47	472.25	476.03	479.81	483.58	487.36
Maximum Power Voltage Vmp(V)	43.17	43.36	43.54	43.73	43.92	44.11	44.30
Maximum Power Current Imp(A)	10.75	10.79	10.83	10.87	10.91	10.95	10.99
Open Circuit Voltage Voc(V)	52.26	52.45	52.64	52.83	53.02	53.21	53.40
Short Circuit Current Isc(A)	11.46	11.50	11.55	11.60	11.65	11.70	11.75

*NMOT:Irradiance 800W/m²,Ambient Temperature 20°C,AM 1.5,Wind Speed 1m/s

Electrical Characteristics (Rear Power Gain)							
5%	Maximum Power: Pmax (W)	645.75	651	656.25	661.5	666.75	672
	Module Efficiency(%)	23.10	23.29	23.48	23.66	23.85	24.04
15%	Maximum Power: Pmax(W)	676.5	682	687.5	693	698.5	704
	Module Efficiency(%)	24.20	24.40	24.59	24.79	24.99	25.19
25%	Maximum Power: Pmax(W)	768.75	775	781.25	787.5	793.75	800
	Module Efficiency(%)	27.50	27.73	27.95	28.17	28.40	28.62

*Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.
*Caution: Please be kindly advised that PV modules should be handled and installed by qualified people who have professional skills and please carefully read the safety and installation instructions before using our PV modules.

Mechanical Data	
Solar cells	N-type Monocrystalline
Cells orientation	156 [2x(13×6)]
Module dimension	2465×1134×35 mm (With Frame)
Weight	34.5±1.0 kg
Glass	2.0 mm+2.0mm, High Transmission, AR Coated Tempered Glass
Junction box	IP 68, 3 diodes
Cables	4 mm ² ,350 mm (With Connectors)
Connectors*	MC4-compatible

*Please refer to regional datasheet for specified connector

Temperature Ratings	
NMOT	44°C ±2°C
Temperature coefficient of Pmax	(-0.30±0.03)%/°C
Temperature coefficient of Voc	-0.25%/°C
Temperature coefficient of Isc	0.046%/°C

*Remark: Do not connect Fuse in Combiner Box with two or more strings in parallel connection

Working conditions	
Maximum system voltage	1500 V DC
Operating temperature	-40°C~+85°C
Maximum series fuse	35 A
Front Side Maximum Static Loading	Up to 5400Pa
Rear Side Maximum Static Loading	Up to 2400Pa