AURIGA

570-600Wp

SOLARWORLD

MAXIMUM EFFICIENCY %	CELL TYPE	PRODUCT WARRANTY	PERFORMANCE WARRANTY
23.23	Topcon Bifacial 16BB	12 YEARS	30 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-DG144THC-600W

CERTIFICATES

ALMM Approved List of Models and Manufacturers

मानक: पथप्रदर्शक: Bureau of Indian Standards

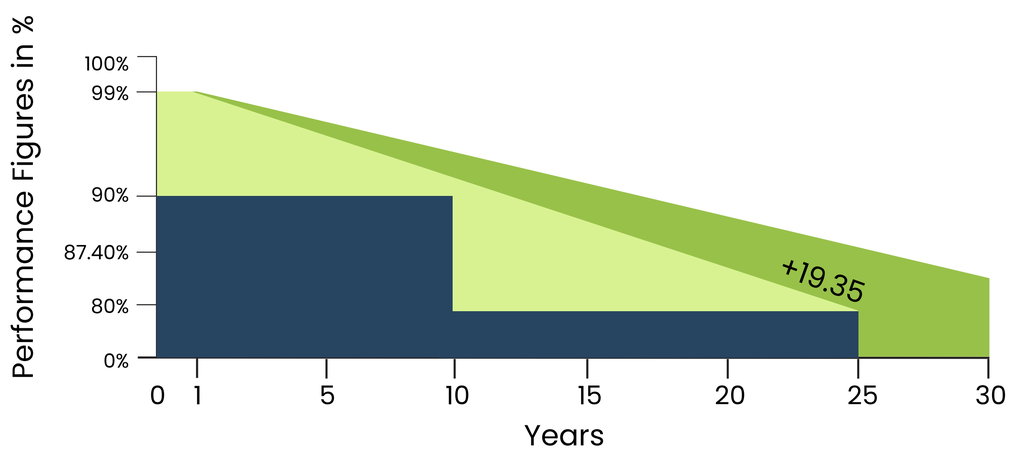
IEC

ISO 9001:2015

ISO 14001:2015

ISO 45001:2018

Performance Warranty



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Bifacial Glass to Glass

Performance under standard test conditions STC (1000w/m^2, AM 1.5, 25^{0}C)

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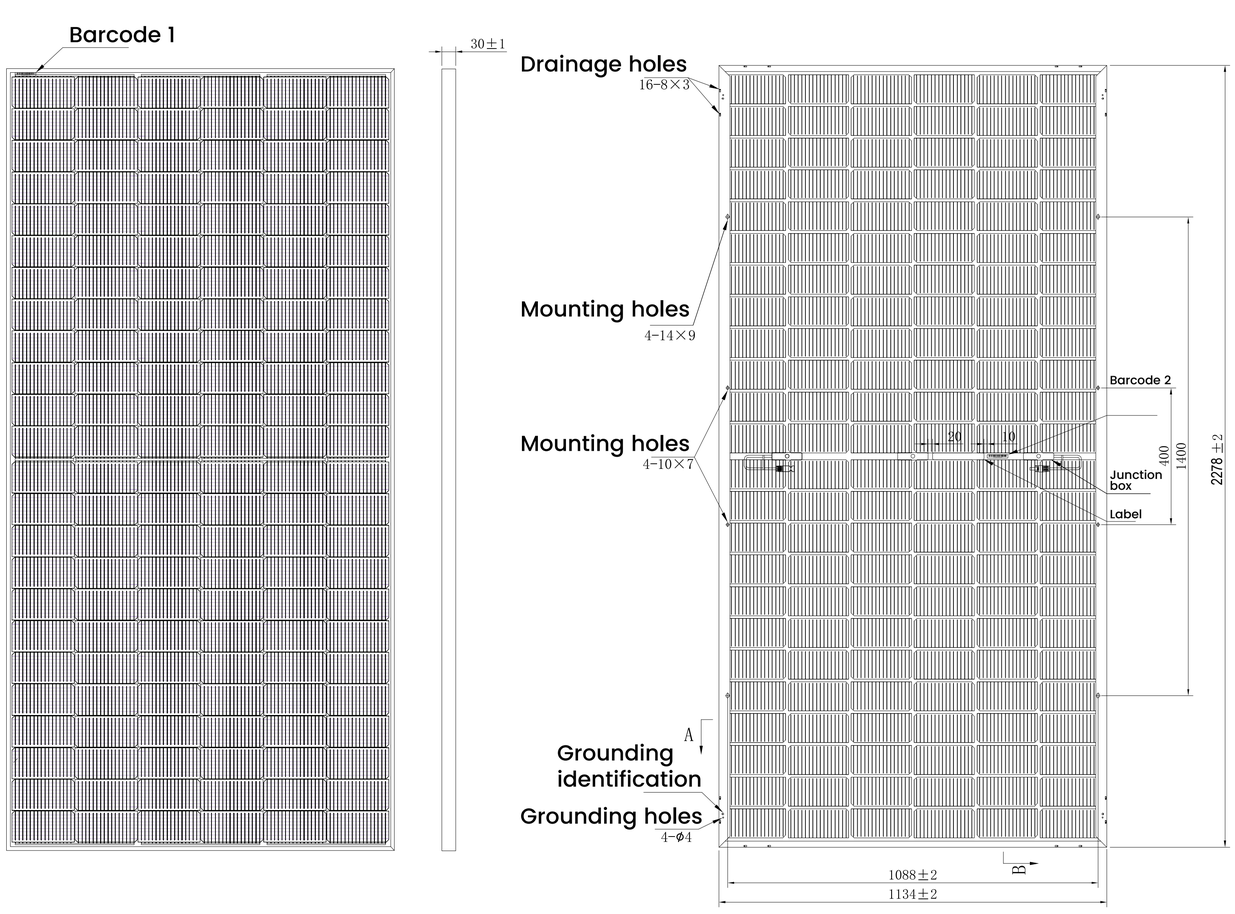
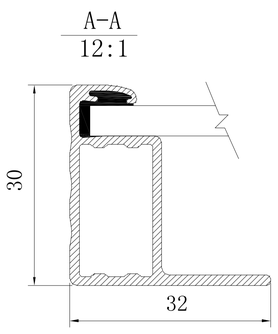
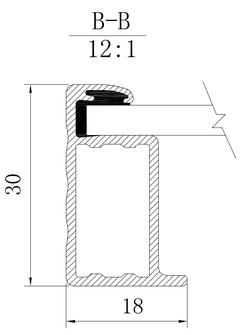
Dimensions of PV Module (mm)



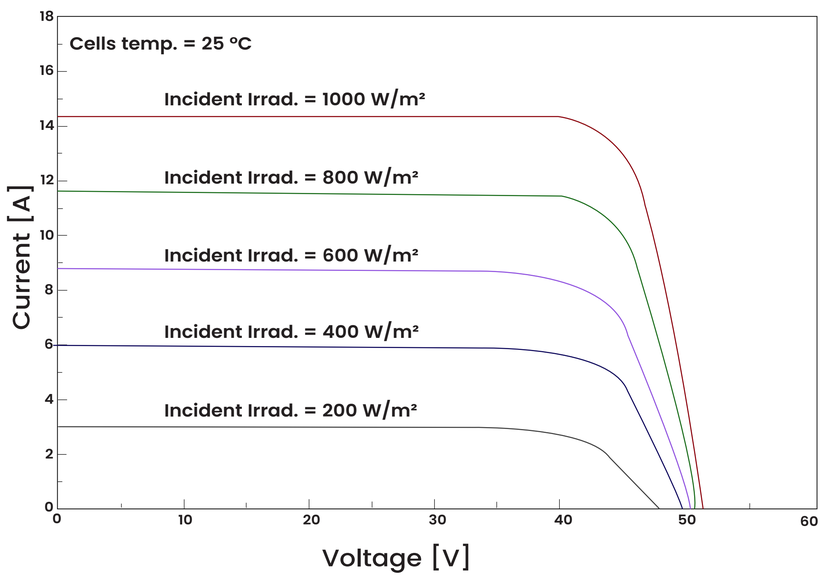
Front View

Back View

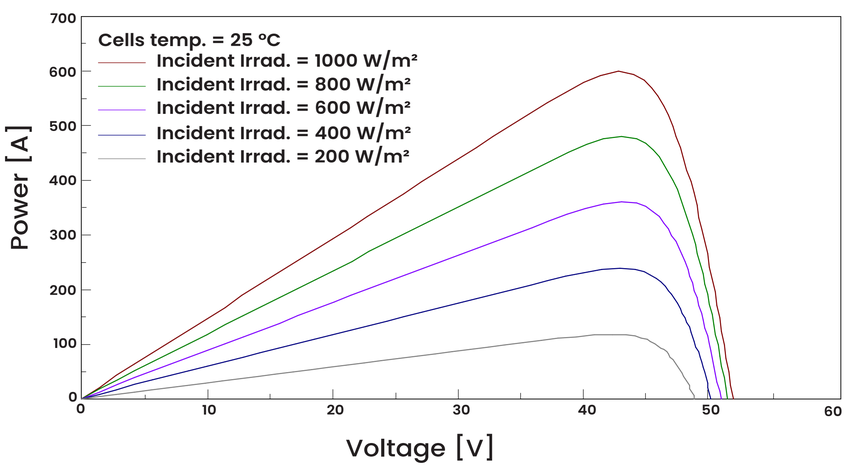




I-V Curves of PV Module (600W)



P-V Curves of PV Module (600W)



Electrical Characteristics | STC*

Nominal Power Watt Pmax(W)*	570	575	580	585	590	595	600
Maximum Power Voltage Vmp(V)	42.40	42.60	42.80	43.00	43.20	43.50	43.70
Maximum Power Current Imp(A)	13.45	13.50	13.56	13.61	13.66	13.71	13.76
Open Circuit Voltage Voc(V)	51.10	51.30	51.50	51.70	51.90	52.10	52.30
Short Circuit Current Isc(A)	14.23	14.29	14.35	14.41	14.46	14.51	14.56
Module Efficiency (%)	22.07	22.26	22.45	22.65	22.84	23.03	23.23

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

Mechanical Data

Solar cells	N-type Monocrystalline
Cells orientation	144 [2x(12x2)]
Module dimension	2278×1134×30 mm (With Frame)
Weight	31.5±1.0 kg
Glass	2.0 mm+2.0mm, High Transmission, AR Coated Heat Strengthened Glass
Junction box	IP 68, 3 diodes
Cables	4 mm², 350 mm (With Connectors)
Connectors*	MC4-compatible

*Please refer to regional datasheet for specified connector

Electrical Characteristics | NMOT*

Maximum Power Pmax(Wp)	430.69	434.47	438.25	442.03	445.80	449.58	453.36
Maximum Power Voltage Vmp(V)	39.96	40.15	40.34	40.53	40.72	41.00	41.19
Maximum Power Current Imp(A)	10.77	10.81	10.85	10.89	10.93	10.97	11.01
Open Circuit Voltage Voc(V)	48.21	48.40	48.59	48.77	48.96	49.15	49.34
Short Circuit Current Isc(A)	11.49	11.54	11.58	11.63	11.67	11.71	11.75

*NMOT:Irradiance 800W/m²,Ambient Temperature 20^{0}C,AM 1.5,Wind Speed 1m/s

Temperature Ratings

NMOT	44^{0}C ±2^{0}C
Temperature coefficient of Pmax	(-0.30±0.03)%/^{0}C
Temperature coefficient of Voc	-0.25%/^{0}C
Temperature coefficient of Isc	0.046%/^{0}C
Refer.Bifacial Factor	(80±10)%

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

Electrical Characteristics with 25% Rear Side Power Gain*

Front power Pmax/W	570	575	580	585	590	595	600
Total power Pmax/W	713	719	725	731	738	744	750
Vmp/V(Total)	42.40	42.60	42.80	43.00	43.20	43.50	43.70
Imp/A(Total)	16.81	16.88	16.95	17.01	17.08	17.14	17.20
Voc/V(Total)	51.10	51.30	51.50	51.70	51.90	52.10	52.30
Isc/A(Total)	17.79	17.86	17.94	18.01	18.08	18.14	18.20

Working conditions

Maximum system voltage	1500 V DC
Operating temperature	-40^{0}C~+85^{0}C
Maximum series fuse	35 A
Front Side Maximum Static Loading	Up to 5400Pa
Rear Side Maximum Static Loading	Up to 2400Pa

*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.

Manufactured by ZNShine Solarworld Private Limited