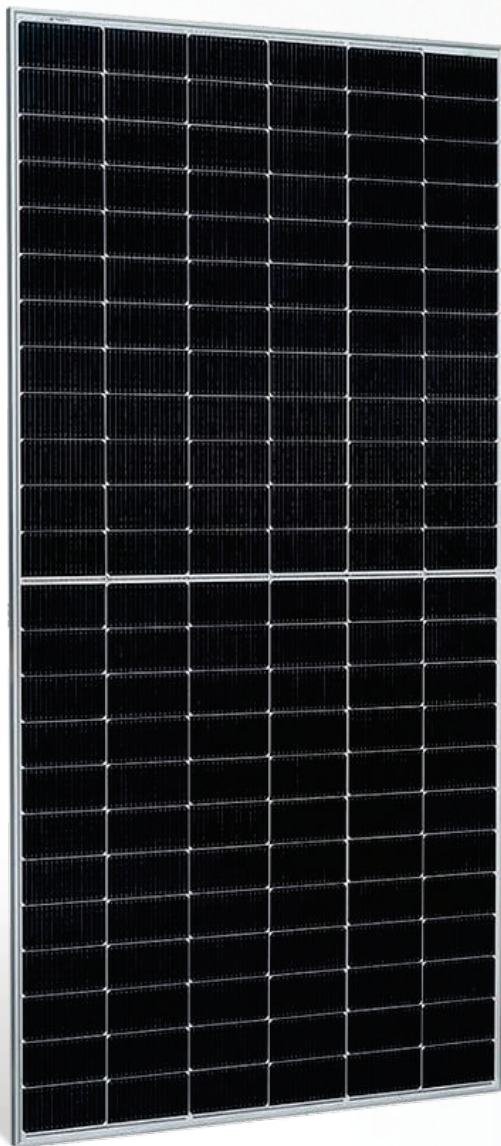


# N Type Topcon Technology

**Bifacial Solar Module 570-595W**



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



Certified to withstand snow loads of up to **5400 Pa**.



**PID-Resistant Module.**



**0% Negative Power Tolerance.**



**Highest reliability and enhanced crack tolerance MBB module.**



For complete information. Please contact

**INTER SOLAR SYSTEMS PVT. LTD.**

901-A, Business Development Centre, Phase-II, Chandigarh 160 002

Ph : (0) 0172-4589999, 2655349 | E-mail : info@intersolarsystems.com

Website : www.intersolarsystems.com



PID resistant with long term reliability



Glass with anti reflective coating improves light transmission



Sustain heavy wind & snow loads



SAVE ENERGY, SAVE MONEY  
SAVE ENVIRONMENT

**CERTIFIED FACILITY**

ISO 9001:2015 | ISO 14001:2015 | ISO 45001:2018

# ELECTRICAL DATA STC

Module Type	ISS-TOP 570	ISS-TOP 575	ISS-TOP 580	ISS-TOP 585	ISS-TOP 590	ISS-TOP 595	ISS-TOP 600
Maximum Voltage $V_{mpp}$ (V)	43.05	43.25	43.45	43.65	43.85	44.05	44.21
Maximum Current $I_{mpp}$ (A)	13.25	13.30	13.35	13.40	13.46	13.51	13.57
Open Circuit Voltage $V_{oc}$ (V)	52.52	52.79	53.05	53.30	53.55	53.62	53.80
Short Circuit Current $I_{sc}$ (A)	13.85	13.87	13.91	13.93	13.96	14.03	14.09
Module Efficiency $\eta$ (%)	22.08	22.28	22.47	22.67	22.86	23.03	23.22

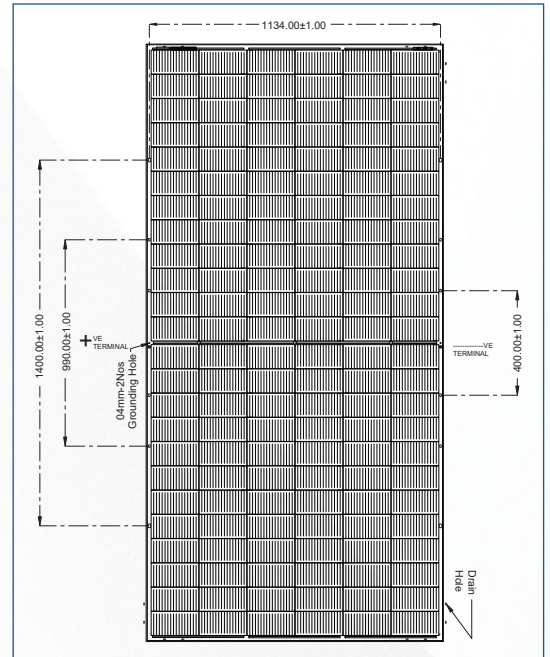
\*STC: Irradiance 1000 W/m<sup>2</sup>, cell temperature 25°C, Air mass AM 1.5 according to ENC60904-3. Average efficiency  $\eta$  reduction is approx. 3% at 200 W/m<sup>2</sup> according to EN 60904-1. Except  $P_{mpp}$ , all other parameter have tolerance of +/-3%, measurement uncertainty <3%.

## BIFACIAL: Pmax WITH REAR SIDE POWER GAIN

Electrical Specification Pmax gain from rear side\*

Module Type	ISS-TOP 570	ISS-TOP 575	ISS-TOP 580	ISS-TOP 585	ISS-TOP 590	ISS-TOP 595	ISS-TOP 600
5% Gain	599	604	604	614	620	625	630
10% Gain	627	633	633	644	649	655	660
15% Gain	656	661	661	673	679	684	690
20% Gain	684	690	690	702	708	714	720
25% Gain	713	719	719	731	738	744	750
30% Gain	741	748	748	761	767	774	780

\* Power gain from rear side depends upon the ground reflectance (Albedo) & Bifaciality factor.



## THERMAL CHARACTERISTICS

$T_c$ of open circuit voltage (B)	-0.24% /°C
$T_c$ of short circuit current (a)	0.028% /°C
$T_c$ of power (Y)	-0.32% /°C
Maximum system voltage	1500 VDC (IEC & UL)
NOCT	45°C ± 2°C
Temperature range	-40°C to + 85°C

## MECHANICAL CHARACTERISTICS

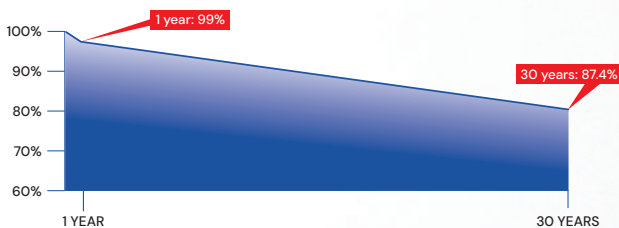
Length	2278 mm
Width	1134 mm
Height	35 mm
Weight	31.3 kg
Junction b x	IP68
Cable and connectors	300 mm length cable, MC4 compatible connectors
Application Class	Class A (Safety class II)
Superstrate	High Transmission ARC glass 2.0 mm
Cells	N-type TopCON 144 Half-cut cell
Encapsulation	High volume resistivity and low MVTR
Substrate	Semi Tempered Glass 2.0 mm
Frame	Anodized Frame
Design Mechanical load	5400 Pa-downward; 2400 Pa-Upward
Safety Factor for Mechanical load	1.5
Maximum Series fuse rating	30 A

Under Standard Test Conditions (STC) of irradiance 1000 W/m<sup>2</sup>, spectrum AM 1.5 and cell temperature of 25°C. Except  $P_{max}$ , all other parameters have a tolerance of ±3%.

## PACKAGING CONFIGURATION

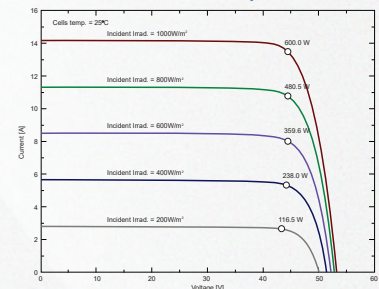
Container	40'HC		
Pallets / Container	22	Pieces / Container	616

### Cosmic PV Performance Warranty

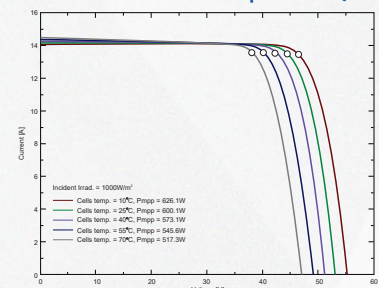


12 Years Product Warranty – 30 Years Linear Power Warranty

### I-V Curve Variation with Temperature (600W)



### I-V Curve Variation with Temperature (600W)



For handling & installation instructions refer Inter Solar Systems Installation Manual available on company website. Before placing order conform your requirement with our sales representative. The electrical data given here is for reference purpose only. Dispose of the product as E-Waste after end of its working life.

\*\* Refer to Inter Solar Systems warranty document for terms and conditions. Due to constant product modifications, Inter Solar Systems reserves the right to amend the above specifications without prior notice.

**CAUTION:** READ SAFETY AND INSTALLATION MANUAL BEFORE USING THE PRODUCT. Specifications included in this datasheet are subject to change without notice. Electrical data without guarantee. Please confirm your exact requirement with the company representative while placing your order. Inter Solar and all its accompanying logos are trademarks of Inter Solar Limited registered in India.



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