Manufacturer of Solar PV Modules & other Solar Products and **Comprehensive EPC Solution Provider**





Manufacturing of Mono Perc and **Bifacial N Topcon Modules** (Range 560Watt to 600Watt)



We also manufacture : Lithium lon Battery

Solar Water Controller Pumps

Solar

Pump

Solar Power **Plants**

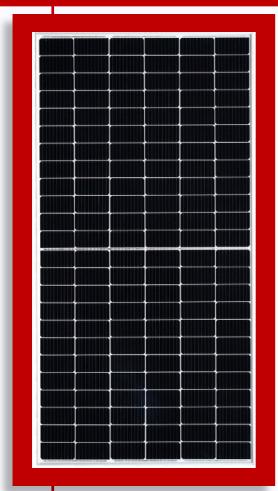
Solar Power Packs

Solar Charger Controller

Solar Home System

Solar Street Lights

Topcon Bifacial 144 cells



Product Warranty** 12 years of product warranty

Performance Warranty** Power degradation <2.0% in first year and <0.55% / year in 2 to 25 years

Key Features

▶ N-Type with Very Low LID

Resulting in higher power generation

- Positive Tolerance Power output with a positive tolerance.
- Excellent performance in low light Superior output in low irradiance Increased power production even in

low-light environments.

Better Temperature coefficient (-0.30%/°C) Higher power generation under higher ambient temperature conditions

Extended Wind and Snow load Tests Certified to withstand: wind load (2400 Pascal) and snow load (5400

Higher < Module Efficiency
Module Efficiency Up-to 22.84%

▶ 10-30% more power generation When compared with the P-type module

Advanced technology
 MBB-Multi Bus- bar (16BB)
 Half-cut N-TOPCon cell

Pascal).

Extended Wind and snow loads

Wind Load (2400 Pascal) and Snow Load (5400 Pascal)

Withstanding a harsh environment

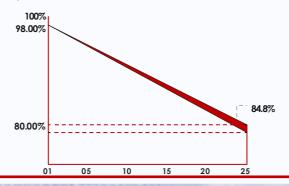
Reliable quality leads to better sustainability, even in harsh environment such as deserts, Farms, coastal and the areas with ammonia exposure

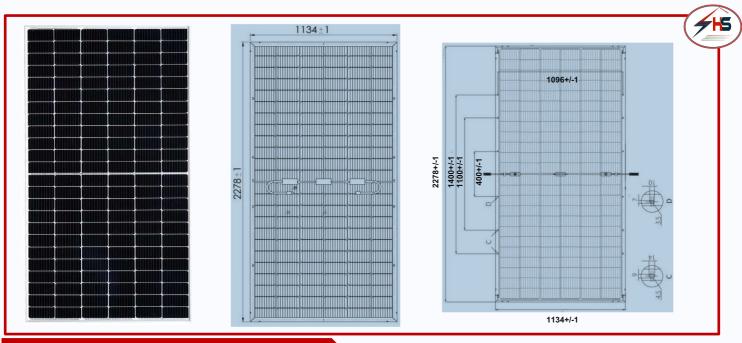
▶ Rigorous testing criteria

100% I-V measurement, HiPOT test ans EL inspection, ensure defect-free modules

▶ Bifaciality factor 80 ±5%

The ratio of the rear efficiency in relation to the front efficiency is subject to the same irradiance.





Electrical Data Performance

Module Type		560Wp	570Wp	580Wp	590Wp	600Wp	
Conditions	Unit	STC	STC	STC	STC	STC	
Peak Power, Pmax (Wp)	W	560	570	580	590	600	
Voltage at Maximum power, Vmp	V	42.34	42.47	43.52	44.05	44.68	
Current at maximum power, Imp	Α	12.98	12.85	13.33	13.38	13.43	
Open circuit voltage, Voc	V	50.14	52.39	51.19	51.24	51.29	
Short circuit current, Isc	Α	13.55	14.03	14.06	14.26	14.46	
Module Efficiency (%)		21.98%	22.08%	22.45%	22.84%	23.22%	
Operating Temperature (0C)	-40°C~+85°C		Temperature coeffici	ent of Isc (a)	-0.046%/°C		
Maximum system voltage	1500VDC		Nominal Operating c (NOCT)	ell temperature	45±2°C		
Maximum series fuse rating		30A	Fire Safety		Class-C		
Power tolerance (Wp)	0~+3%		Application		Class-A		
Temperature coefficient of Pmax (γ)		-0.30%/°C	Safety Class		Class-II		
Temperature coefficient of Voc (ß)		-0.26%/°C	Temperature coeffici	ent of Isc (a)	-0.046%/°C		

STC: Irradiance 1000W/m², module temperature 25°C, AM =1.5; NOCT: Irradiance 800W/m², ambient temperature 20°C, AM=1.5, wind Speed 1m/s. Average power reduction of 4.5% at 200W/m² as per IEC 60904-1. Except Pmax, all other parameters have tolerance of +/-5%, measurement uncertainty +/-3%

BI-FACIAL OUTPUT - BACKSIDE POWER GAIN*

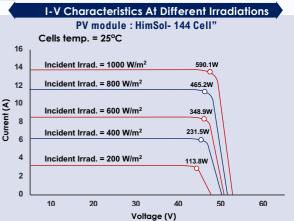
Bifacial Gain	Measurement	Unit	560Wp	570Wp	580Wp	590Wp	600Wp
5%	Peak Power (Pmax)	W	585	599	605	615	625
	Module Efficiency	%	22.64%	23.21%	23.42%	23.80%	24.19%
10%	Peak Power (Pmax)	W	610	627	630	640	650
	Module Efficiency	%	23.61%	24.29%	24.39%	24.77%	25.16%
15%	Peak Power (Pmax)	W	635	-	655	665	675
	Module Efficiency	%	24.58%	-	25.35%	25.74%	26.13%

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

Module Mechanical Data SPECIFICATION DATA Cell Technology N- Type TOPCon, 182x91mm-MBB|144Cells 2278X1134X35 mm Dimensions (LxWxH) 28.00 kgs ± 1.5 kg 3.2mm High Transmission, Low Iron, Tempered Glass, AR Weight Superstrate Rear Cover Substrate 2.00 mm Toughened Low Iron Glass/Transparent Backsheet Silver Anodized Aluminium frame with twin profile IP68, Spilit Junction box with individual Bypass Diodes Frame Junction Box Cable & Connectors 300mmx2nos solar cable, 4mm2,MC4 Compatible Connectors IEC/UL certified **Application Class** Class A (Safety Class II) Mechanical Load Test 5400 Pa (Snow load), 2400 Pa (Wind load) Standard Packaging 28 pieces/ Pallet Per Container.

The specifications included in this datasheet are subject to change without notice.

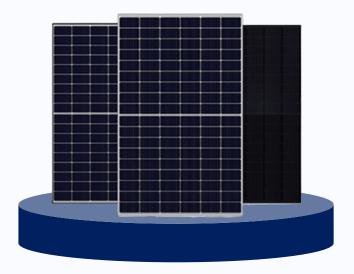
The electrical data given here is for reference purpose only. Please confirm your exact requirements with the sales representative while placing your order. Refer installation Manual instructions & Himalayan Solar warranty statement for terms & conditions >



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Our Commitments

- O► Quality Products & Solutions
- O► Timely Delivery
- O► Cost Effectiveness
- O► Total Customer Satisfaction



Himalayan Solar Power Solution for a Shining Future

Manufacturing Units: - Plot No. 237, HSIIDC Industrial Estate, Alipur, Barwala, Panchkula 134118, Haryana, India - Plot No. 3 & 4, Khasra No. 249, Khewat No. 980 & 977, Near Aryakulam International School, Assandh – Kohand Road, Munak, Karnal, Haryana - 132040

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