

TOPCon Modules Bifacial Solar Panels

580wp, 585wp, 590wp, 595wp 600wp



About Servotech Renewable

Servotech Renewable Power System Ltd. (NSE: SERVOTECH) is India's leading manufacturer of advanced clean energy solutions, specializing in solar Solutions, BESS and EV charging solutions. With a robust pan-India presence, agile manufacturing, and strong R&D capabilities, Servotech is driving India's transition toward a sustainable, energy-independent, and technologically empowered future. Through continuous innovation, strategic collaborations, and large-scale deployments, the company delivers reliable, high-performance solutions that support the nation's clean energy goals. Servotech's comprehensive portfolio spanning solar panels, inverters, Lithium batteries, and EV chargers reflects its commitment to engineering excellence and environmental stewardship. By aligning business growth with global sustainability standards, Servotech stands as a catalyst in shaping India's green energy transformation and powering a cleaner tomorrow.



TOPCon Modules Bifacial

Solar Panels



Servotech's TOPCon Solar Panels redefine renewable energy with a focus on reliability and long-term performance. Expertly engineered for high efficiency, these advanced modules are designed to maximize power output while maintaining a sleek, compact design. Built to withstand diverse weather conditions, they feature robust, weather-enduring construction and undergo rigorous quality testing to ensure a micro-crack-free life. With a 25-year performance warranty, our TOPCon panels offer a dependable, sustainable solution for powering households and large-scale utility systems alike.

Quality and Safety

- 100% EL Tested to ensure micro crack free modules
- Rigorous Quality Control in order to meet the TUV Standards.
- 25 Years Linear Power Output Warranty
- Around 30 In House Tests.

Applications

- On-grid large scale utility systems
- On-grid roof top installation
- Off-grid residential Systems
- Solar Pumping Applications

Features



Excellent module efficiency of up to 24%



Outstanding low irradiance performance of up to 96.0%



IP68 junction box for long-term weather endurance



Compact Design

TOPCon Modules Bifacial

N-type 144 Half-cut Cell Series

Power Range

580-600 watts

Maximum Efficiency

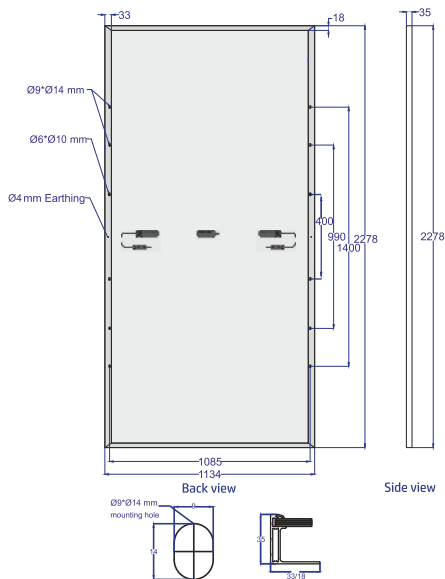
23.20%

Thermal Characteristics

T _c of open circuit voltage	-0.26%/ °C
T _c of short circuit current	0.0460% 0/ °C
T _c of power (γ)	-0.31% / °C
Maximum system voltage	1500 VDC (IEC&UL)
NOCT	450c ± 2°C
Temperature range	-400C to +85°C

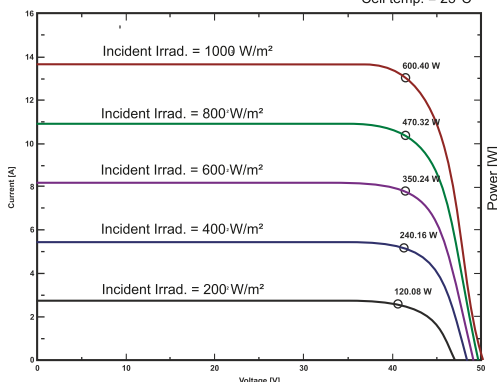
Linear Performance Warranty

Product Warranty 10 Years: Material & Processing
 First year Degradation upto - 2%
 Linear Power output 25: Annual Degradation -0.56%



Current-Voltage & Power-Voltage Curve

Cell temp. = 25°C



*Due to continuous product innovation and improvement the specifications in product data sheet are subject to change without prior notice.

ELECTRICAL DATA (at STC)

Model Type	580WP	585WP	590WP	595WP	600WP
Nominal Maximum Power (P _{max})	580 W	585 W	590 W	595 W	600 W
Short Circuit Current (I _{sc})	13.68 A	13.80 A	13.92 A	14.04 A	14.16 A
Open Circuit Voltage (V _{oc})	51.42 V	51.42 V	51.42V	51.42 V	51.42 V
Operating Current (I _{mp})	13.14 A	13.26 A	13.37A	13.48 A	13.60 A
Operating Voltage (V _{mp})	44.15 V	44.15 V	44.15 V	44.15 V	44.15 V
Module Efficiency %	22.45%	22.65%	22.80%	23.00%	23.20%
Operating Temperature	-40°C to 80°C				
Maximum System Voltage	1500 V				
Maximum Series Fuse Rating	25 Amp				
Application Classification	Class A				
Power Tolerance	+- 3%				
Under Standard Test Condition (STC) of irradiance of 1000 w/m ² , spectrum AM 1.5 and cell temperature of 25°C					

MECHANICAL DATA

Solar Cells	N-type Bifacial TopCon 91 mm x 182 mm
Cell Orientation	144 Half-cut cells (12 x 12)
Module Orientation	2278 x 1134 x 35 mm
Weight (Kgs)	27.00 Kg
Front Glass	3.2mm toughened textured glass
Back sheet	White
Frame	Anodized Aluminum Alloy
Junction Box	IP 68 split junction box, 3 Diode
Cable & Connectors	4mm ² AWG 1500V MC4 connectors
Standard Packing	25/29 Panels per pallet.
Module Pieces per Container	600 Pieces/Modules/Panels (40 HQ)

	580WP	585WP	590WP	595WP	600WP
15% Power Output (W)	667 W	673 W	679 W	684 W	690 W
Module Efficiency (%)	25.82	26.05	26.27	26.48	26.71
20% Power Output (W)	696	702	708	714	720
Module Efficiency (%)	26.94	27.18	27.41	27.64	27.88
25% Power Output (W)	725	731	738	744	750
Module Efficiency (%)	28.06	28.31	28.55	28.79	29.04
30% Power Output (W)	754	761	767	774	780
Module Efficiency (%)	29.19	29.45	29.69	29.94	30.20

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Reg. Add. & Kundli Plant: Khata No. 1970, Khewat No. 1672, Khasra No. 21/20/2/2, Revenue Estate, Kundli, P.S.Rai, Sonipat, Haryana - 131029

Safiabad Plant: Killa No. 14/6/1/2 (0-3), 6/2/3 (5-13) Village-Safiabad, Pana Paposhian, Rai, Sonipat, Haryana - 131029

