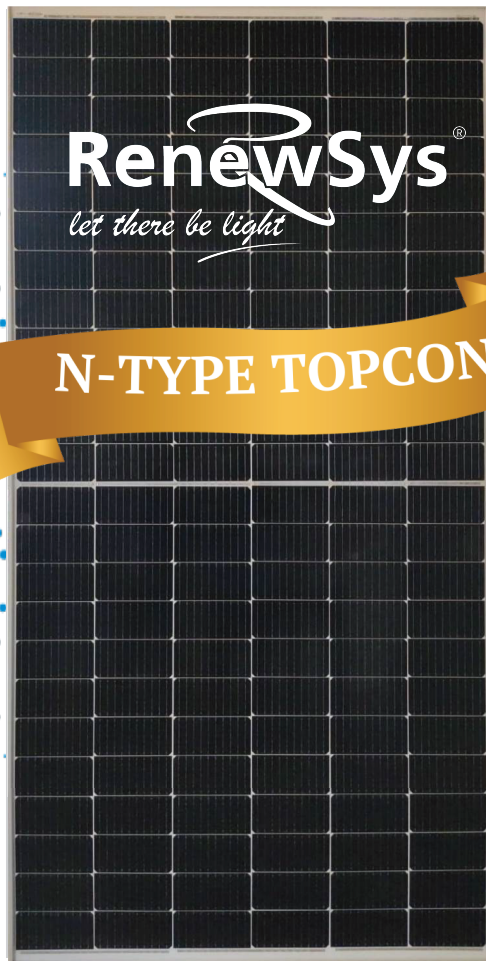


◀ BIFACIAL DUAL GLASS ▶



DESERV[®] EXTREME 144X
560 WP - 600 WP



OUTPUT
 Up to 650 Wp



EFFICIENCY
 UP TO 23.3%



TEMPERATURE
COEFFICIENT -0.29 %/°C



WARRANTY
 12-year of product
 30-year of power output

*Module image for representation purpose only



World-class products, Made in India

- **Smart:** High module efficiency with 144X half-cut Mono crystalline Bi-facial TopCon Solar Cell
- **Modern:** Processed on state-of-the-art technology production lines
- **Dependable:** Use of highest quality raw materials coupled with rigorous in-house testing
- **Versatile:** Suitable for Utility, Rooftop, and other general applications

Certifications:

- IEC Compliant
- IMS Certified Company - ISO 9001: 2015
- OHSAS 45001: 2018
- EMS - ISO 14001: 2015
- Independently audited by SOLARBUYER



RenewSys is the first integrated manufacturer of Solar PV Modules and its key components - Encapsulants (EVA and POE), Backsheets and Solar PV Cells. We have a global presence with offices in India, Mauritius, Nigeria, South Africa, Singapore, UAE, representatives in Europe, USA, Mexico, and an evolving distributor network.

Registered Office: Unit No. 607, 6th Floor, Trade Center, Bandra-Kurla Complex, Bandra East, Mumbai - 400 051, Maharashtra, India.

Factory: Plot No. E-141, Additional Patalganga MIDC Industrial Area, Village - Karade Khurd, Taluka Panvel, District Raigad - 410 206, Maharashtra, India.

Factory: Plot No.6, Survey # 114/P, Srinagar Village, Maheshwaram Mandal, Dist - Rangareddy, Hyderabad - 501 359, Telangana, India.

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

DESERV Extreme 144 Bi-Facial Gain @Different Albedo (%)												
	Pm (Wp)	Vmp (V)	Imp (A)	Voc (V)	Isc (A)	Efficiency (%)	Pm (Wp)	Vmp (V)	Imp (A)	Voc (V)	Isc (A)	Efficiency (%)
Front @STC	560	42.65	13.14	52.02	13.69	21.71	565	42.87	13.19	52.30	13.75	21.90
5%	588	42.65	13.79	52.02	14.34	22.79	593.25	42.87	13.84	52.30	14.39	23.00
10%	616	42.65	14.44	52.02	14.99	23.88	621.5	42.87	14.50	52.30	15.05	24.09
20%	672	42.65	15.76	52.02	16.31	26.05	678	42.87	15.82	52.30	16.37	26.28
Front @STC	570	43.05	13.24	52.50	13.80	22.09	575	43.28	13.29	52.78	13.85	22.29
5%	598.5	43.05	13.90	52.50	14.45	23.20	603.75	43.28	13.95	52.78	14.50	23.40
10%	627	43.05	14.56	52.50	15.12	24.30	632.5	43.28	14.61	52.78	15.17	24.52
20%	684	43.05	15.89	52.50	16.44	26.51	690	43.28	15.94	52.78	16.50	26.75
Front @STC	580	43.50	13.34	53.03	13.89	22.48	585	43.74	13.38	53.27	13.93	22.68
5%	609	43.50	14.00	53.03	14.55	23.61	614.25	43.74	14.04	53.27	14.59	23.81
10%	638	43.50	14.67	53.03	15.21	24.73	643.5	43.74	14.71	53.27	15.26	24.94
20%	696	43.50	16.00	53.03	16.55	26.98	702	43.74	16.05	53.27	16.59	27.21
Front @STC	590	43.93	13.44	53.51	13.97	22.87	595	44.16	13.48	53.75	14.01	23.06
5%	619.5	43.93	14.10	53.51	14.63	24.01	624.75	44.16	14.15	53.75	14.67	24.22
10%	649	43.93	14.77	53.51	15.30	25.16	654.5	44.16	14.82	53.75	15.35	25.37
20%	708	43.93	16.12	53.51	16.64	27.44	714	44.16	16.17	53.75	16.69	27.68

Physical Parameters	
No. of cells	144
Module dimension (mm)	2277 X 1133 (± 2)
Module thickness (mm)	35
Approximate weight (kg)	31.5

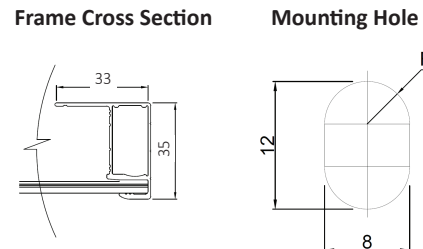
NOCT (Wp) at 45 ± 2 °C @800 W/m ²	560	565	570	575	580	585	590	595	600
Pmax (W)	416.77	420.49	424.21	427.93	431.65	435.38	439.10	442.82	446.54
Max. power voltage (Vmp), V	39.01	39.21	39.38	39.58	39.78	40.00	40.18	40.39	40.58
Max. power current (Imp), A	10.69	10.74	10.78	10.82	10.86	10.89	10.94	10.97	11.01
Open circuit voltage (Voc), V	48.37	48.63	48.82	49.08	49.30	49.53	49.76	49.98	50.21
Short circuit current (Isc), A	11.18	11.23	11.27	11.31	11.34	11.38	11.41	11.44	11.47

Bi-faciality factor: 70 ± 5%

Cell Temperature Coefficient	Bi-Facial
Open circuit voltage	- 0.25 % / °C
Short circuit current	+ 0.05 % / °C
Peak power	- 0.29 % / °C

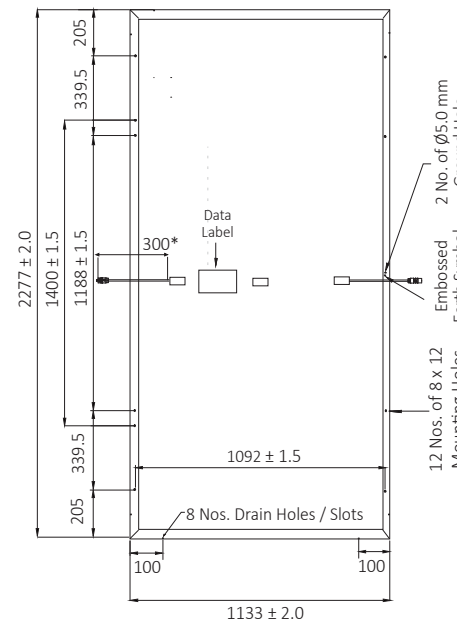
Test uncertainty for Pmax ± 3%

Bi-facial gain subject to mounting structure specifications and albedo % of ground



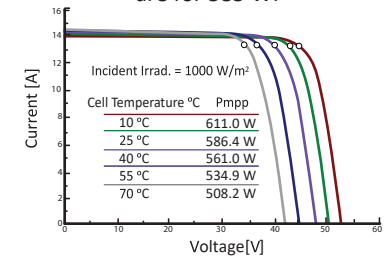
Operating Conditions	Mechanical Characteristics
Temperature, °C	-40 to +85
Max. system voltage, Vdc	1500
Hail impact velocity, m/sec	23
Max. surface load capacity, Pa	5400
Max. wind speed capacity, Pa	2400
Series fuse rating, A	30
Cable	No. 12 AWG, 4mm ² , (300mm Standard)
PV Connectors	MC4 Compatible
Frame	Anodized Aluminum Alloy
Junction box	IP68 Split junction box with 3 bypass diodes
Glass (front)	2.0mm AR coated low iron heat strengthened
Glass (back)	2.0 mm Low iron heat strengthened

Module Dimension Diagram (mm)

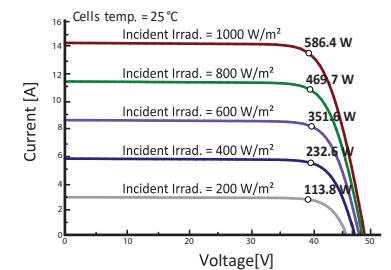


IV Curves

Cell temperature sensitivity chart are for 585 WP



Incident irradiance sensitivity chart are for 585 WP



-Please refer to the installation manual for detailed information.

*Due to continuous product updation, specifications may change without notice. Kindly refer to the website for latest information: www.renewsysworld.com

*Recycle Responsibly/RenewSys recommends recycling in accordance with local government e-waste notifications.