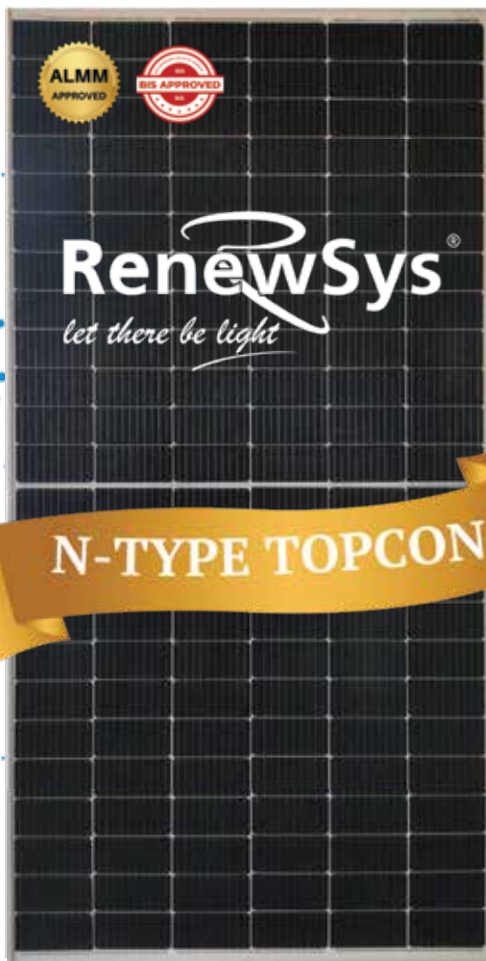




DESERV[®] EXTREME 144X 565 WP - 610 WP



OUTPUT
Up to 610 Wp



EFFICIENCY
UP TO 23.64%



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 M10R 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:

- IMS Certified Company - ISO 9001: 2015
- OHSAS 45001: 2018
- IEC 61730-1:2023 (565 Wp-600 Wp)
- IEC 61215-1:2021 (565 Wp-600 Wp)
- IEC 61215-2:2021 (565 Wp-600 Wp)
- IEC IEC 61853-1:2011 (590 Wp)
- Independently audited by SOLARBUYER
- EMS - ISO 14001: 2015
- BIS Number R-63000760 (565 Wp-600 Wp)
- IEC 61730-2:2023 (565 Wp-600 Wp)
- IEC 61215-1-1:2021 (565 Wp-600 Wp)
- IEC 61853-2:2016 (590 Wp)



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.

DESERV Extreme 144 Bi-Facial Gain @Different Albedo (%)

	Pm (Wp)	Vmp (V)	Imp (A)	Voc (V)	Isc (A)	Efficiency (%)
Front @STC	565	42.62	13.26	50.91	14.15	21.90
Bi-Facial Gain 5%	595.25	42.62	13.92	50.91	14.81	23.00
10%	621.5	42.62	14.58	50.91	15.47	24.09
20%	678	42.62	15.91	50.91	16.80	26.28

Front @STC	575	43.14	13.34	51.55	14.23	22.29
Bi-Facial Gain 5%	603.75	43.14	14.00	51.55	14.89	23.40
10%	632.5	43.14	14.66	51.55	15.55	24.52
20%	690	43.14	15.99	51.55	16.88	26.75

Front @STC	585	43.67	13.41	52.22	14.30	22.68
Bi-Facial Gain 5%	614.25	43.67	14.07	52.22	14.96	23.81
10%	643.5	43.67	14.74	52.22	15.63	24.94
20%	702	43.67	16.08	52.22	16.97	27.21

Front @STC	595	44.15	13.49	52.73	14.38	23.06
Bi-Facial Gain 5%	624.75	44.15	14.15	52.73	15.04	24.22
10%	654.5	44.15	14.82	52.73	15.71	25.37
20%	714	44.15	16.17	52.73	17.06	27.68

NOCT (Wp) at 45 ± 2 °C @800 W/m ²	565	570	575	580	585	590	595	600	605	610
Pmax (W)	420.49	424.21	427.93	431.65	435.38	439.10	442.82	446.54	450.26	453.98
Max. power voltage (Vmp), V	38.98	39.22	39.45	39.69	39.04	40.18	40.38	40.58	40.81	41.02
Max. power current (Imp), A	10.79	10.83	10.86	10.89	10.91	10.95	10.98	11.01	11.05	11.08
Open circuit voltage (Voc), V	47.34	47.64	47.93	48.23	48.56	48.83	49.03	49.23	49.56	49.82
Short circuit current (Isc), A	11.56	11.59	11.63	11.66	11.68	11.72	11.75	11.78	11.81	11.85

Bi-faciality factor: 80±5%, Bifaciality factor for grid printed: 75+,-5%

Cell Temperature Coefficient	Bi-Facial
Open circuit voltage	-0.2764 % / °C
Short circuit current	+0.0572 % / °C
Peak power	-0.2915 % / °C

Test uncertainty for Pmax ± 3%

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

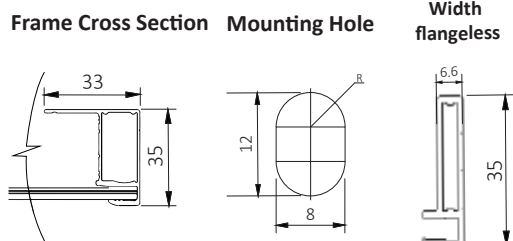
-Please refer to the installation manual for detailed information.

Standard frame : Width side frame cross section is flange less, Flange is available on request.

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

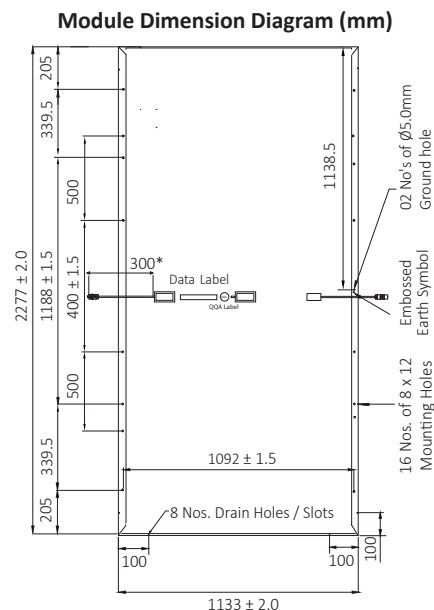
Due to continuous product updation, specifions may change without notice. Kindly refer to the website for latest information: www.renewsysworld.com

Grid printed modules also available(grid is on rear glass)



Operating Conditions	
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

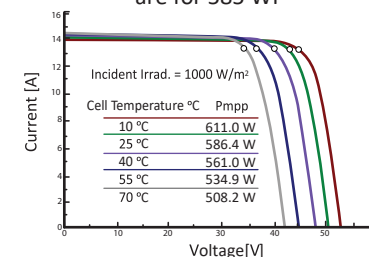
Physical Parameters	
No. of cells	144
Module dimension (mm)	2277 X 1133 (± 2)
Module thickness (mm)	35
Approximate weight (kg)	31.5



Mechanical Characteristics	
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 Semi Tempered Glass
Glass (back)	2.0mm Semi Tempered Glass.

IV Curves

Cell temperature sensitivity chart are for 585 WP



Incident irradiance sensitivity chart are for 585 WP

