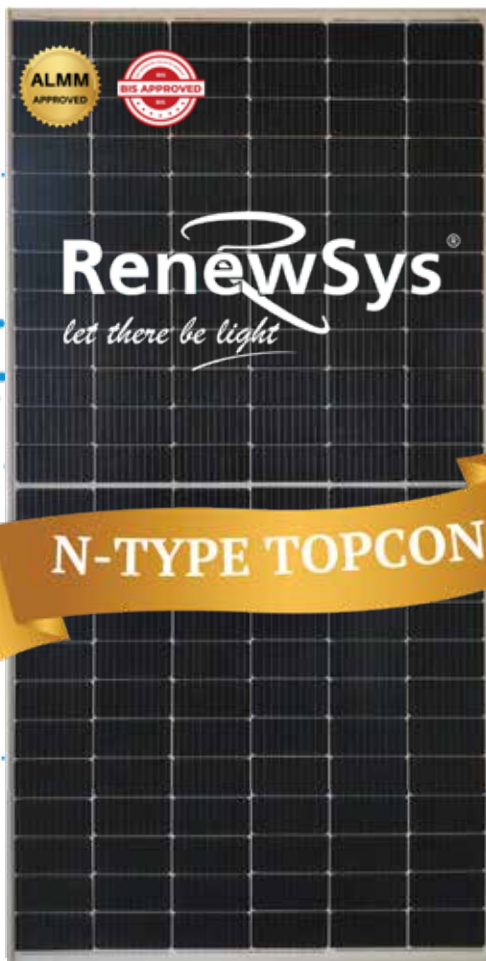




DESERV[®] EXTREME 120X 465 WP - 500 WP



OUTPUT
Up to 500 Wp



EFFICIENCY
UP TO 23.26%



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 120X M10R half-cut Mono crystalline Bi-facial TopCon Solar Cell
- **Dependable:** Use of highest quality raw materials coupled with rigorous in-house testing
- **Modern:** Processed on state-of-the-art technology production lines
- **Versatile:** Suitable for Utility, Rooftop, and other general applications

Certifications:

- IEC 61730-1:2023 (465 Wp-500 Wp)
- IEC 61730-2:2023 (465 Wp-500 Wp)
- IEC 61215-1:2021 (465 Wp-500 Wp)
- IEC 61215-1-1:2021 (465 Wp-500 Wp)
- IEC 61215-2:2021 (465 Wp-500 Wp)
- IEC 61730-1:2023 (465 Wp-500 Wp)
- OHSAS 45001: 2018
- IMS Certified Company - ISO 9001: 2015
- Independently audited by SOLARBUYER
- EMS - ISO 14001: 2015
- BIS Number R-63000760 (465 Wp-500 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.

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

DESERV Extreme 108 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	465	35.26	13.20	42.86	13.85	21.44	470	35.41	13.30	43.04	13.96	21.67
Bi-Facial Gain 5%	488.25	35.263	13.85	42.863	14.50	22.51	493.5	35.408	13.94	43.042	14.60	22.76
10%	511.5	35.263	14.51	42.863	15.16	23.59	517	35.408	14.60	43.042	15.26	23.84
20%	558	35.263	15.82	42.863	16.47	25.73	564	35.408	15.93	43.042	16.59	26.01
Front @STC	475	35.55	13.38	43.21	14.04	21.90	480	35.68	13.47	43.38	14.13	22.13
Bi-Facial Gain 5%	498.75	35.545	14.03	43.212	14.69	23.00	504	35.682	14.12	43.382	14.78	23.24
10%	522.5	35.545	14.70	43.212	15.36	24.09	528	35.682	14.80	43.382	15.46	24.35
20%	570	35.545	16.04	43.212	16.70	26.28	576	35.682	16.14	43.382	16.80	26.56
Front @STC	485	35.82	13.56	43.55	14.22	22.37	490	35.97	13.65	43.73	14.31	22.60
Bi-Facial Gain 5%	509.25	35.818	14.22	43.552	14.88	23.48	514.5	35.965	14.31	43.732	14.97	23.73
10%	533.5	35.818	14.89	43.552	15.55	24.60	539	35.965	14.99	43.732	15.65	24.86
20%	582	35.818	16.25	43.552	16.91	26.84	588	35.965	16.35	43.732	17.01	27.72
Front @STC	495	36.10	13.73	43.90	14.39	22.83	500	36.24	13.81	44.07	14.48	23.06
Bi-Facial Gain 5%	519.75	36.102	14.40	43.902	15.09	23.97	525	36.24	14.49	44.07	15.16	24.21
10%	544.5	36.102	15.08	43.902	15.74	25.11	550	36.24	15.18	44.07	15.85	25.36
20%	594	36.102	16.45	43.902	17.11	27.39	600	36.24	16.56	44.07	17.23	27.67

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

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.

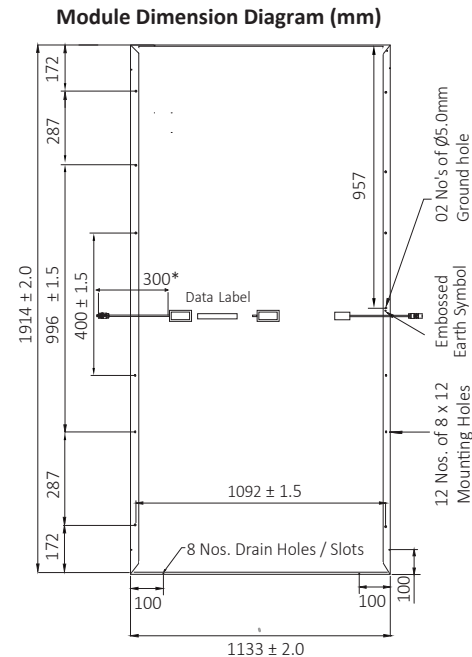
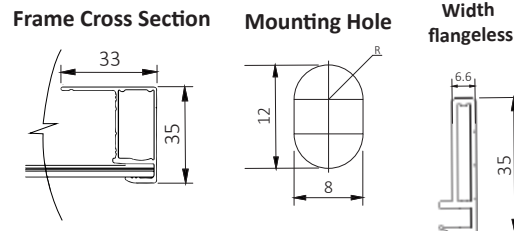
*Due to continuous product updation, specifications may change without notice. Kindly refer to the website for latest information: www.renewsysworld.com

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

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

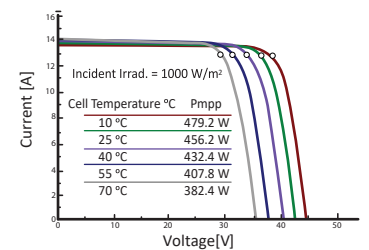
Grid printed modules also available(grid is on rear glass)

Physical Parameters	
No. of cells	120
Module dimension (mm)	1914 X 1133 (± 2)
Module thickness (mm)	35
Approximate weight (kg)	26.5



IV Curves

Cell temperature sensitivity chart



Incident irradiance sensitivity chart

