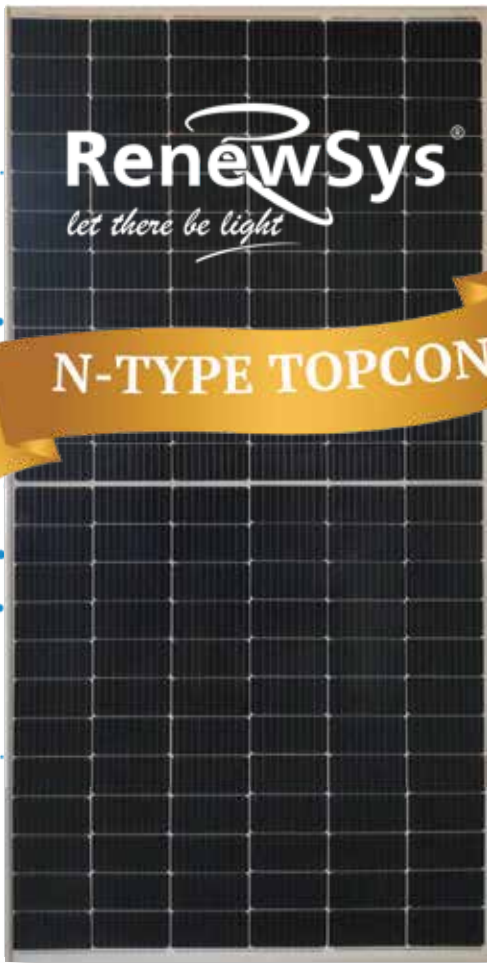


◀ BIFACIAL DUAL GLASS ▶



**DESERV<sup>®</sup> EXTREME 120X  
460 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 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
- BIS Number R-63000760 (460 Wp-500 Wp)



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/m<sup>2</sup>, AM 1.5, 25 °C)

**DESERV Extreme 156 Bi-Facial Gain @Different Albedo (%)**

	Pm (Wp)	Vmp (V)	Imp (A)	Voc (V)	Isc (A)	Efficiency (%)
Front @STC	<b>460</b>	36.02	12.78	42.02	13.21	21.21
5%	483	36.02	13.41	42.02	13.84	18.60
10%	506	36.02	14.05	42.02	14.48	19.48
20%	552	36.02	15.32	42.02	15.75	21.26

Front @STC	<b>470</b>	36.38	12.94	42.44	13.36	21.67
5%	493.5	36.38	13.57	42.44	13.99	19.00
10%	517	36.38	14.21	42.44	14.63	19.91
20%	564	36.38	15.50	42.44	15.92	21.72

Front @STC	<b>480</b>	36.70	13.09	42.8	13.49	22.13
5%	504	36.70	13.73	42.8	14.13	19.41
10%	528	36.70	14.39	42.8	14.79	20.33
20%	576	36.70	15.69	42.8	16.09	22.18

Front @STC	<b>490</b>	37.07	13.23	43.04	13.62	22.60
5%	514.5	37.07	13.88	43.04	14.27	19.81
10%	539	37.07	14.54	43.04	14.93	20.76
20%	588	37.07	15.86	43.04	16.25	22.64

NOCT (Wp) at 45 ± 2 °C @800 W/m <sup>2</sup>	460	465	470	475	480	485	490	495	500
Pmax (W)	342.35	346.07	349.79	353.51	357.23	360.95	369.67	368.39	372.12
Max. power voltage (Vmp), V	32.94	33.11	33.27	33.39	33.56	33.72	33.90	34.09	34.27
Max. power current (Imp), A	10.40	10.47	10.53	10.60	10.65	10.71	10.77	10.83	10.88
Open circuit voltage (Voc), V	39.07	39.27	39.46	39.63	39.80	39.95	40.02	40.09	40.15
Short circuit current (Isc), A	10.79	10.85	10.91	10.96	11.02	11.07	11.13	11.18	11.24

Bi-faciality factor: 70 ± 5%

Cell Temperature Coefficient	Bi-Facial
Open circuit voltage	- 0.234 % / °C
Short circuit current	+ 0.032 % / °C
Peak power	- 0.279 % / °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](http://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.

**Physical Parameters**

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

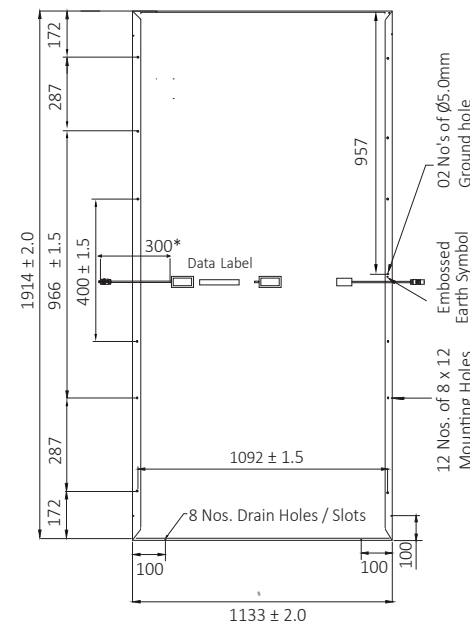
**Operating Conditions**

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

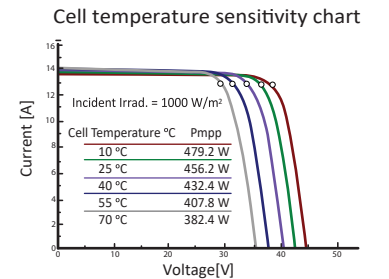
**Mechanical Characteristics**

Cable	No. 12 AWG, 4mm <sup>2</sup> , (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

**Module Dimension Diagram (mm)**



**IV Curves**



**Incident irradiance sensitivity chart**

