

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 Cells
- **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 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
Bi-Facial Gain 10%	511.5	35.263	14.51	42.863	15.16	23.59	517	35.408	14.60	43.042	15.26	23.84
Bi-Facial Gain 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
Bi-Facial Gain 10%	522.5	35.545	14.70	43.212	15.36	24.09	528	35.682	14.80	43.382	15.46	24.35
Bi-Facial Gain 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
Bi-Facial Gain 10%	533.5	35.818	14.89	43.552	15.55	24.60	539	35.965	14.99	43.732	15.65	24.86
Bi-Facial Gain 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
Bi-Facial Gain 10%	544.5	36.102	15.08	43.902	15.74	25.11	550	36.24	15.18	44.07	15.85	25.36
Bi-Facial Gain 20%	594	36.102	16.45	43.902	17.11	27.39	600	36.24	16.56	44.07	17.23	27.67

NOCT (Wp) at 45 ± 2 °C @800 W/m ²	465	470	475	480	485	490	495	500
Pmax (W)	346.07	349.79	353.51	357.23	360.95	364.67	368.39	372.12
Max. power voltage (Vmp), V	32.25	32.38	32.51	32.63	32.76	32.89	33.02	33.14
Max. power current (Imp), A	10.74	10.83	10.89	10.96	11.04	11.11	11.18	11.24
Open circuit voltage (Voc), V	39.86	40.02	40.18	40.34	40.50	40.66	40.82	40.98
Short circuit current (Isc), A	11.31	11.40	11.47	11.54	11.62	11.69	11.76	11.83

Bi-faciality factor: 80 ± 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

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

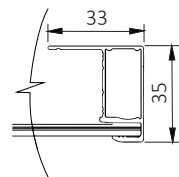
Recycle Responsibly/RenewSys recommends recycling in accordance with local government e-waste notifications.

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

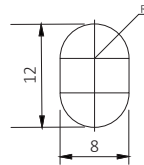
Physical Parameters

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

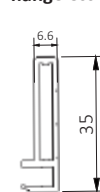
Frame Cross Section



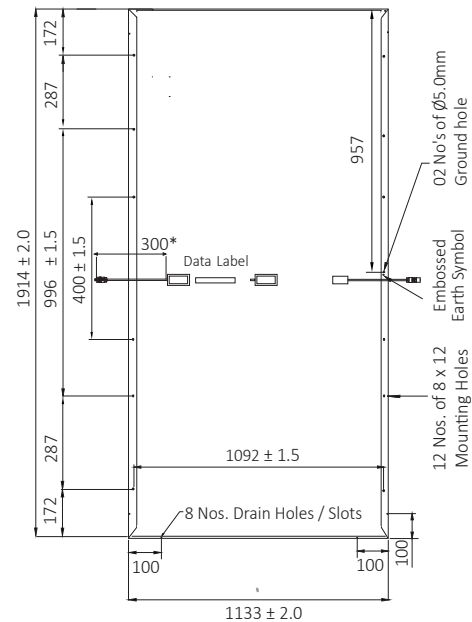
Mounting Hole



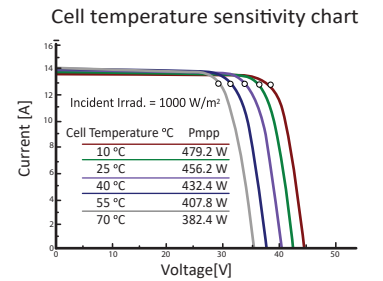
Width flangeless



Module Dimension Diagram (mm)



IV Curves



Incident irradiance sensitivity chart

