

DESERV[®] EXTREME 108X 490 WP - 515 WP



OUTPUT
Up to 515 Wp



EFFICIENCY
UP TO 19.09%



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 108X G12R 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
- EMS - ISO 14001: 2015
- IMS Certified Company - ISO 9001: 2015
- Independently audited by SOLARBUYER
- OHSAS 45001: 2018



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, Maharashtra - 410 206, India.

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

Factory: B300 & B400, Indospace Industrial and
Logistics Park, Khopoli II, Village Ajivali, Taluka Khalapur,
District Raigad, Maharashtra- 410 203, India.

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	490	36.50	13.45	43.25	14.21	18.16	495	36.65	13.51	43.39	14.26	18.35
Bi-Facial Gain 5%	514.5	36.50	14.10	43.25	14.86	19.07	519.75	36.65	14.18	43.39	14.93	19.27
10%	539	36.50	14.77	43.25	15.53	19.98	544.5	36.65	14.86	43.39	15.61	20.18
20%	588	36.50	16.11	43.25	16.87	21.80	594	36.65	16.21	43.39	16.96	22.02

Front @STC	500	36.85	13.58	43.53	14.32	18.53	505	37.06	13.64	43.66	14.37	18.72
Bi-Facial Gain 5%	525	36.85	14.25	43.53	14.99	19.46	530.25	37.06	14.31	43.66	15.04	19.66
10%	550	36.85	14.93	43.53	15.67	20.39	555.5	37.06	14.99	43.66	15.72	20.59
20%	600	36.85	16.28	43.53	17.02	22.24	606	37.06	16.35	43.66	17.09	22.46

Front @STC	510	37.23	13.70	43.80	14.43	18.91	515	37.42	13.77	43.94	14.48	19.09
Bi-Facial Gain 5%	535.5	37.23	14.38	43.80	15.11	19.85	540.75	37.42	14.45	43.94	15.17	20.05
10%	561	37.23	15.07	43.80	15.79	20.80	566.5	37.42	15.14	43.94	15.85	21.00
20%	612	37.23	16.44	43.80	17.16	22.69	618	37.42	16.52	43.94	17.23	22.91

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 _{oc}	-0.26 % / °C
Short circuit current	0.045 % / °C
Peak power	-0.30 % / °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

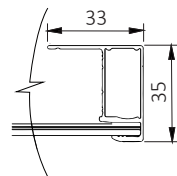
Recycle Responsibly/RenewSys recommends recycling in accordance with local government e-waste notifications.

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

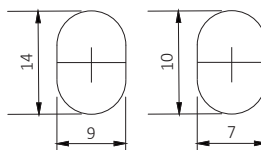
Grid printed modules also available(grid is on rear glass)

Physical Parameters	
No. of cells	108
Module dimension (mm)	1959 X 1133 (± 2)
Module thickness (mm)	35
Approximate weight (kg)	25

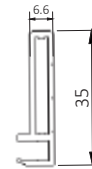
Frame Cross Section



Mounting Hole



Width flangeless



NOCT (Wp) at 45 ± 2 °C @800 W/m ²	490	495	500	505	510	515
Pmax (W)	364.67	368.39	372.12	375.84	379.56	383.28
Max. power voltage (Vmp), V	33.38	33.52	33.70	33.89	34.05	34.22
Max. power current (Imp), A	10.95	11.00	11.05	11.10	11.15	11.20
Open circuit voltage (Voc), V	40.22	40.34	40.47	40.60	40.73	40.86
Short circuit current (Isc), A	11.61	11.65	11.70	11.74	11.79	11.83

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

Module Dimension Diagram (mm)

