



DESERV[®] EXTREME 144X
565 WP - 600 WP



OUTPUT
Up to 600 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 **DESERV[®]**

World-class products, Made in India

- **Smart:** High module efficiency with 144X 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-71018970 (565 Wp-600 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 (%) | Pm (Wp) | Vmp (V) | Imp (A) | Voc (V) | Isc (A) | Efficiency (%) |
| Front @STC | 565 | 42.87 | 13.19 | 52.30 | 13.75 | 21.90 | 570 | 43.05 | 13.24 | 52.50 | 13.80 | 22.09 |
| Bi-Facial Gain 5% | 593.25 | 42.87 | 13.84 | 52.30 | 14.39 | 23.00 | 598.5 | 43.05 | 13.90 | 52.50 | 14.45 | 23.20 |
| Bi-Facial Gain 10% | 621.5 | 42.87 | 14.50 | 52.30 | 15.05 | 24.09 | 627 | 43.05 | 14.56 | 52.50 | 15.12 | 24.30 |
| Bi-Facial Gain 20% | 678 | 42.87 | 15.82 | 52.30 | 16.37 | 26.28 | 684 | 43.05 | 15.89 | 52.50 | 16.44 | 26.51 |
| Front @STC | 575 | 43.28 | 13.29 | 52.78 | 13.85 | 22.29 | 580 | 43.50 | 13.34 | 53.03 | 13.89 | 22.48 |
| Bi-Facial Gain 5% | 603.75 | 43.28 | 13.95 | 52.78 | 14.50 | 23.40 | 609 | 43.50 | 14.00 | 53.03 | 14.55 | 23.61 |
| Bi-Facial Gain 10% | 632.5 | 43.28 | 14.61 | 52.78 | 15.17 | 24.52 | 638 | 43.50 | 14.67 | 53.03 | 15.21 | 24.73 |
| Bi-Facial Gain 20% | 690 | 43.28 | 15.94 | 52.78 | 16.50 | 26.75 | 696 | 43.50 | 16.00 | 53.03 | 16.55 | 26.98 |
| Front @STC | 585 | 43.74 | 13.38 | 53.27 | 13.93 | 22.68 | 590 | 43.93 | 13.44 | 53.51 | 13.97 | 22.87 |
| Bi-Facial Gain 5% | 614.25 | 43.74 | 14.04 | 53.27 | 14.59 | 23.81 | 619.5 | 43.93 | 14.10 | 53.51 | 14.63 | 24.01 |
| Bi-Facial Gain 10% | 643.5 | 43.74 | 14.71 | 53.27 | 15.26 | 24.94 | 649 | 43.93 | 14.77 | 53.51 | 15.30 | 25.16 |
| Bi-Facial Gain 20% | 702 | 43.74 | 16.05 | 53.27 | 16.59 | 27.21 | 708 | 43.93 | 16.12 | 53.51 | 16.64 | 27.44 |
| Front @STC | 595 | 44.16 | 13.48 | 53.75 | 14.01 | 23.06 | 600 | 44.37 | 13.53 | 54.00 | 14.05 | 23.26 |
| Bi-Facial Gain 5% | 624.75 | 44.16 | 14.15 | 53.75 | 14.67 | 24.22 | 630 | 44.37 | 14.20 | 54.00 | 14.71 | 24.42 |
| Bi-Facial Gain 10% | 654.5 | 44.16 | 14.82 | 53.75 | 15.35 | 25.37 | 660 | 44.37 | 14.87 | 54.00 | 15.39 | 25.58 |
| Bi-Facial Gain 20% | 714 | 44.16 | 16.17 | 53.75 | 16.69 | 27.68 | 720 | 44.37 | 16.23 | 54.00 | 16.74 | 27.91 |

| NOCT (Wp) at 45 ± 2 °C @800 W/m ² | 565 | 570 | 575 | 580 | 585 | 590 | 595 | 600 |
|--|--------|--------|--------|--------|--------|--------|--------|--------|
| Pmax (W) | 420.49 | 424.21 | 427.93 | 431.65 | 435.38 | 439.10 | 442.82 | 446.54 |
| Max. power voltage (Vmp), V | 39.21 | 39.38 | 39.58 | 39.78 | 40.00 | 40.18 | 40.39 | 40.58 |
| Max. power current (Imp), A | 10.74 | 10.78 | 10.82 | 10.86 | 10.89 | 10.94 | 10.97 | 11.01 |
| Open circuit voltage (Voc), V | 48.63 | 48.82 | 49.08 | 49.30 | 49.53 | 49.76 | 49.98 | 50.21 |
| Short circuit current (Isc), A | 11.23 | 11.27 | 11.31 | 11.34 | 11.38 | 11.41 | 11.44 | 11.47 |

Bi-faciality factor: 70 ± 5%

| Mechanical Characteristics | |
|----------------------------|---------------------------------|
| Cable | No. 12 AWG, 4mm ² |
| PV Connectors | MC4 Compatible |
| Frame | Anodized Aluminum Alloy |
| Junction box | IP68 Split junction |
| Glass (front) | (3.2mm Thick low iron tempered) |

| 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) | 28.7 |

| Cell Temperature Coefficient | Bi-Facial |
|------------------------------|---------------|
| Open circuit voltage | - 0.25 % / °C |
| Short circuit current | +0.05 % / °C |
| Peak power | - 0.29 % / °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 Responsibility/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.

