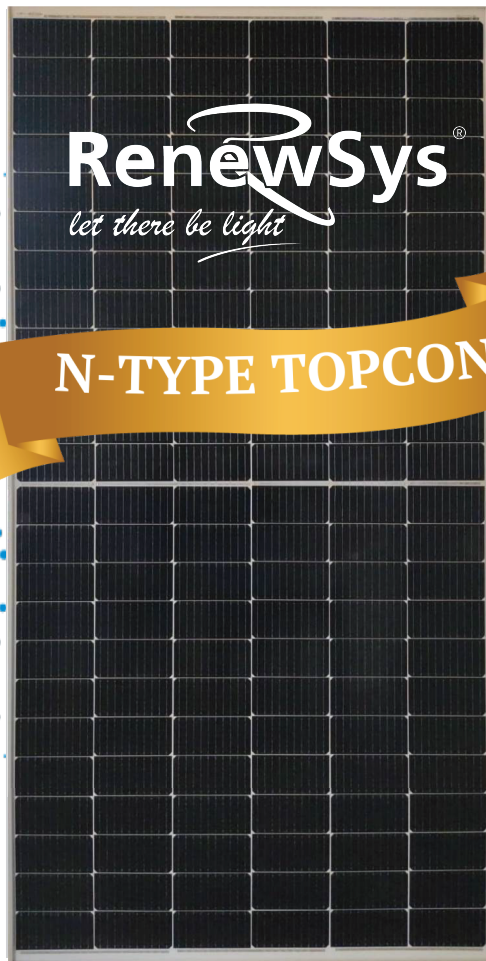


◀ BIFACIAL DUAL GLASS ▶



**DESERV<sup>®</sup> EXTREME 156X  
610 WP - 650 WP**



**OUTPUT**  
Up to 650 Wp



**EFFICIENCY**  
UP TO 23.3%



**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 156X 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



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 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  | 610     | 46.40   | 13.16   | 56.70   | 13.70   | 21.87          | 615     | 46.61   | 13.20   | 56.91   | 13.75   | 22.05          |
| 5%  | 640.5   | 46.40   | 13.80   | 56.70   | 14.34   | 24.83          | 645.75  | 46.61   | 13.85   | 56.91   | 14.40   | 25.03          |
| 10%   | 671     | 46.40   | 14.46   | 56.70   | 15.00   | 26.01          | 676.5   | 46.61   | 14.51   | 56.91   | 15.06   | 26.22          |
| 20%   | 732     | 46.40   | 15.78   | 56.70   | 16.32   | 28.37          | 738     | 46.61   | 15.83   | 56.91   | 16.38   | 28.61          |
| Front @STC  | 620     | 46.82   | 13.25   | 57.12   | 13.80   | 22.23          | 625     | 47.01   | 13.30   | 57.33   | 13.85   | 22.41          |
| 5%  | 651     | 46.82   | 13.90   | 57.12   | 14.45   | 25.23          | 656.25  | 47.01   | 15.16   | 57.33   | 15.71   | 25.44          |
| 10%   | 682     | 46.82   | 14.57   | 57.12   | 15.12   | 26.44          | 687.5   | 47.01   | 15.88   | 57.33   | 16.43   | 26.65          |
| 20%   | 744     | 46.82   | 15.89   | 57.12   | 16.44   | 28.84          | 750     | 47.01   | 17.33   | 57.33   | 17.88   | 29.07          |
| Front @STC  | 630     | 47.21   | 13.35   | 57.56   | 13.90   | 22.59          | 635     | 47.40   | 13.40   | 57.76   | 13.95   | 22.76          |
| 5%  | 661.5   | 47.21   | 15.21   | 57.56   | 15.76   | 25.64          | 666.75  | 47.40   | 15.24   | 57.76   | 15.79   | 25.84          |
| 10%   | 693     | 47.21   | 15.93   | 57.56   | 16.48   | 26.86          | 698.5   | 47.40   | 15.97   | 57.76   | 16.52   | 27.08          |
| 20%   | 756     | 47.21   | 17.38   | 57.56   | 17.93   | 29.30          | 762     | 47.40   | 17.42   | 57.76   | 17.97   | 29.54          |
| Front @STC  | 640     | 47.57   | 13.46   | 57.97   | 14.00   | 22.94          | 645     | 47.72   | 13.52   | 58.15   | 14.05   | 23.12          |
| 5%  | 672     | 47.57   | 15.30   | 57.97   | 15.84   | 26.05          | 677.25  | 47.72   | 15.34   | 58.15   | 15.87   | 26.25          |
| 10%   | 704     | 47.57   | 16.03   | 57.97   | 16.57   | 27.29          | 709.5   | 47.72   | 16.07   | 58.15   | 16.60   | 27.50          |
| 20%   | 768     | 47.57   | 17.48   | 57.97   | 18.02   | 29.77          | 774     | 47.72   | 17.53   | 58.15   | 18.06   | 30.00          |

| Physical Parameters     |                    |
|-------------------------|--------------------|
| No. of cells            | 156                |
| Module dimension (mm)   | 2469 X 1133 ( ± 2) |
| Module thickness (mm)   | 35                 |
| Approximate weight (kg) | 34.5               |

| 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 low iron heat strengthened      |
| Glass (back)               | 2.0 mm Low iron heat strengthened               |

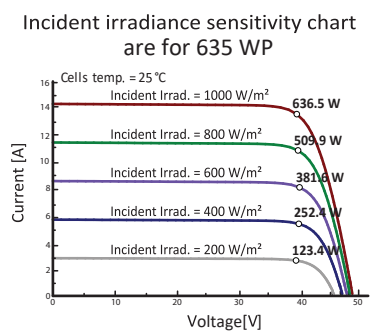
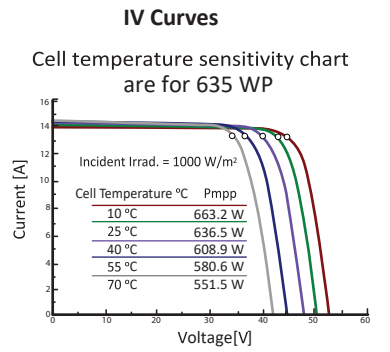
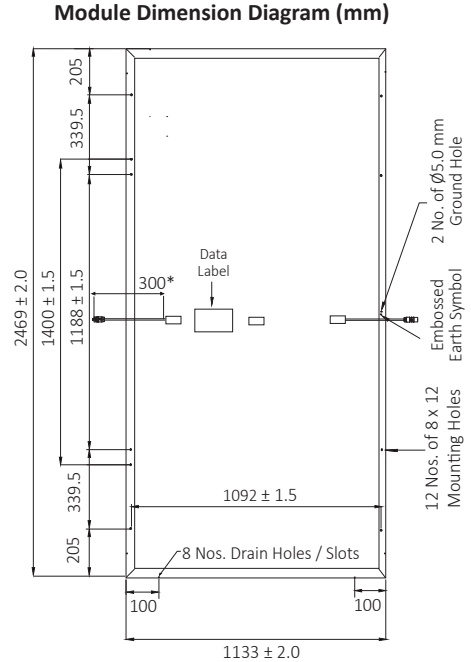
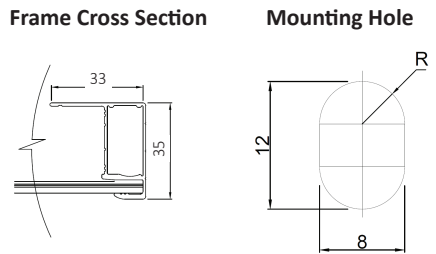
| NOCT (Wp) at 45 ± 2 °C @800 W/m <sup>2</sup> | 610    | 615    | 620    | 625    | 630    | 635    | 640    | 645    | 650    |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pmax (W)                                     | 453.98 | 457.70 | 461.42 | 465.14 | 468.87 | 472.59 | 476.31 | 480.03 | 483.75 |
| Max. power voltage (Vmp), V                  | 42.44  | 42.63  | 42.82  | 42.99  | 43.18  | 43.35  | 43.51  | 43.64  | 43.84  |
| Max. power current (Imp), A                  | 10.71  | 10.74  | 10.78  | 10.83  | 10.87  | 10.91  | 10.96  | 11.00  | 11.04  |
| Open circuit voltage (Voc), V                | 52.72  | 52.92  | 53.11  | 53.31  | 53.52  | 53.71  | 53.90  | 54.07  | 54.25  |
| Short circuit current (Isc), A               | 11.19  | 11.23  | 11.27  | 11.31  | 11.36  | 11.40  | 11.44  | 11.48  | 11.53  |

Bi-faciality factor: 70 ± 5%

| 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](http://www.renewsysworld.com)

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