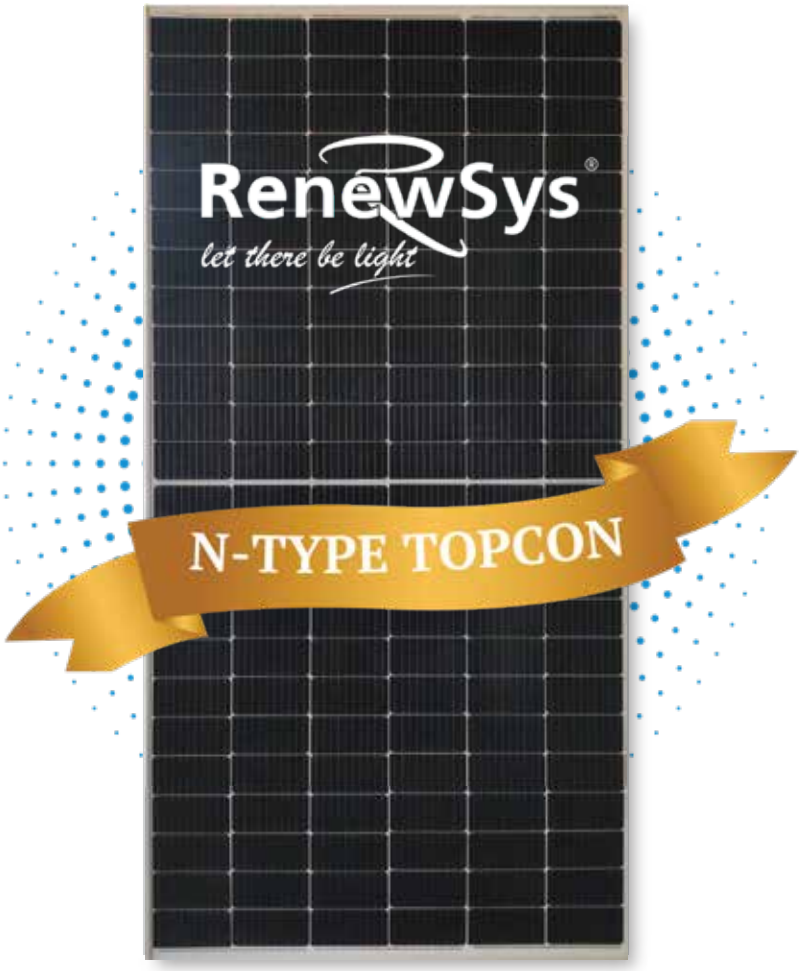
RenewSys®
let there be light

**TOPCon Series**
**Bifacial Dual Glass**
**G12 R**




*Module image for representation purpose only

# DESERV® EXTREME 132X
# 600 WP - 625 WP

**OUTPUT**
**Up to 625 Wp**

**EFFICIENCY**
**UP TO 23.17%**

**TEMPERATURE**
**COEFFICIENT -0.29 %/°C**

**WARRANTY**
**12-year of product**
**30-year of power output**

DESERV®

## World-class products, Made in India

- **Smart**: High module efficiency with 132X 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
- IMS Certified Company - ISO 9001: 2015
- OHSAS 45001: 2018
- EMS - ISO 14001: 2015
- Independently audited by SOLARBUYER

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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.

RenewSys® let there be light

# Bifacial Glass Glass

## G12 R

DESERV®

Performance under standard test conditions (1000w/m², AM 1.5, 25 ºC)

### DESERV Extreme 132 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 | **600** | 39.58 | 15.18 | 47.08 | 15.98 | 22.24 | **605** | 36.69 | 15.27 | 47.22 | 16.06 | 22.43 |
| Bi-Facial Gain 5% | 630 | 39.58 | 15.92 | 47.08 | 16.72 | 23.35 | 635.25 | 36.69 | 16.01 | 47.22 | 16.80 | 23.55 |
| Bi-Facial Gain 10% | 660 | 39.58 | 16.68 | 47.08 | 17.48 | 24.47 | 665.5 | 36.69 | 16.77 | 47.22 | 17.56 | 24.67 |
| Bi-Facial Gain 20% | 720 | 39.58 | 18.19 | 47.08 | 18.99 | 26.69 | 726 | 36.69 | 18.29 | 47.22 | 19.08 | 26.91 |
| Front @STC | **610** | 39.80 | 15.35 | 47.36 | 16.15 | 22.61 | **615** | 39.91 | 15.43 | 47.50 | 16.23 | 22.80 |
| Bi-Facial Gain 5% | 640.5 | 39.80 | 16.09 | 47.36 | 16.89 | 23.74 | 645.75 | 39.91 | 16.18 | 47.50 | 16.98 | 23.94 |
| Bi-Facial Gain 10% | 671 | 39.80 | 16.86 | 47.36 | 17.66 | 24.87 | 676.5 | 39.91 | 16.95 | 47.50 | 17.75 | 25.08 |
| Bi-Facial Gain 20% | 732 | 39.80 | 18.39 | 47.36 | 19.19 | 27.13 | 738 | 39.91 | 18.49 | 47.50 | 19.29 | 27.36 |
| Front @STC | **620** | 40.02 | 15.51 | 47.63 | 16.32 | 22.98 | **625** | 40.15 | 15.59 | 47.77 | 16.41 | 23.17 |
| Bi-Facial Gain 5% | 651 | 40.02 | 16.27 | 47.63 | 17.08 | 24.13 | 656.25 | 40.15 | 16.34 | 47.77 | 17.16 | 24.33 |
| Bi-Facial Gain 10% | 682 | 40.02 | 17.04 | 47.63 | 17.85 | 25.08 | 687.5 | 40.15 | 17.12 | 47.77 | 17.94 | 25.48 |
| Bi-Facial Gain 20% | 744 | 40.02 | 18.59 | 47.63 | 19.40 | 27.58 | 750 | 40.15 | 18.68 | 47.77 | 19.50 | 27.80 |

| NOCT (Wp) at 45 ± 2 ºC @800 W/m² | 600 | 605 | 610 | 615 | 620 | 625 |
|---|---|---|---|---|---|---|
| Pmax (W) | 446.54 | 450.26 | 453.98 | 457.70 | 461.42 | 465.14 |
| Max. power voltage (Vmp), V | 36.20 | 36.30 | 36.40 | 36.50 | 36.60 | 36.72 |
| Max. power current (Imp), A | 12.36 | 12.43 | 12.49 | 12.56 | 12.62 | 12.69 |
| Open circuit voltage (Voc), V | 43.78 | 43.91 | 44.04 | 44.16 | 44.29 | 44.42 |
| Short circuit current (Isc), A | 13.05 | 13.12 | 13.19 | 13.26 | 13.33 | 13.40 |

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

### Mechanical Characteristics

| | |
|---|---|
| Cable | No. 12 AWG, 4mm², (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, ºC | -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

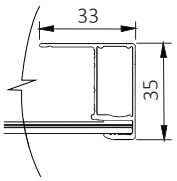
| | |
|---|---|
| No. of cells | 132 |
| Module dimension (mm) | 2381 X 1133 ( ± 2) |
| Module thickness (mm) | 35 |
| Approximate weight (kg) | 33.4 |

### Cell Temperature Coefficient

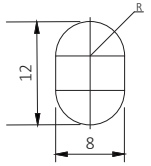
| | Bi-Facial |
|---|---|
| Open circuit voltage $_{50}$ | -0.26 % / ºC |
| Short circuit current | 0.045 % / ºC |
| Peak power | -0.30 % / ºC |

Test uncertainty for Pmax ± 3%
Bi-facial gain subject to mounting structure specifications and albedo % of ground

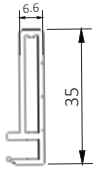
**Frame Cross Section**



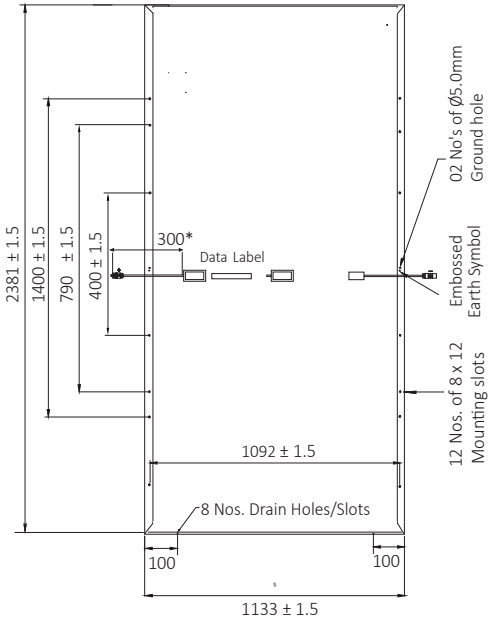

**Mounting Hole**



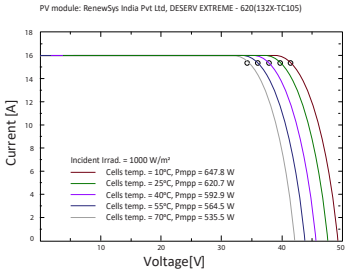

**Width flangeless**

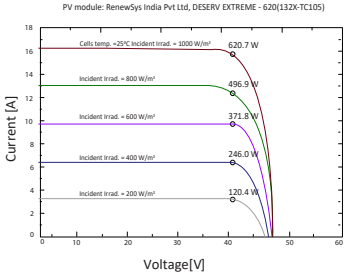



**Module Dimension Diagram (mm)**




**IV curves**




- 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 Responsibily/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)