



Power Tolerance  
**+4.99 Wp**



Efficiency Up To  
**23.35%**



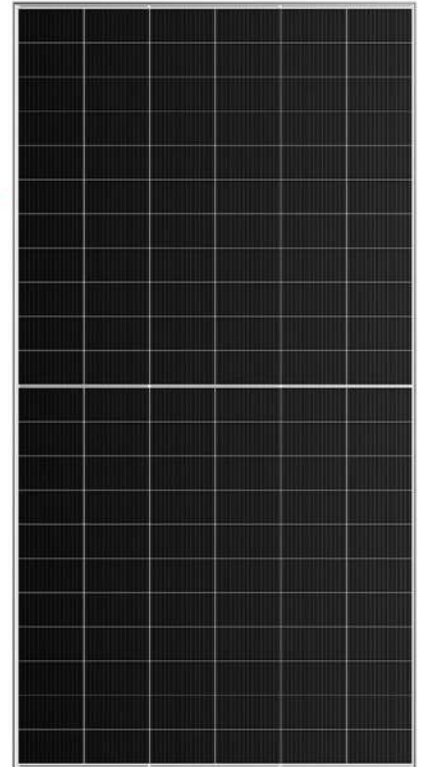
Module Warranty  
**12 Years**



Output Warranty  
**30 Years**

**AARKSOL-Rn** Series  
G12R 132 H-cell  
**600-630 WP**

600 Wp | 605 Wp | 610 Wp  
615 Wp | 620 Wp | 625 Wp  
630 Wp



## Key Features



**Rigorous Testing Criteria**  
100% EL Inspection ensuring defect-free modules.



**PID Resistance**  
With long-term reliability.



**Better Performance**  
Even at low irradiation.



**Maximum System Voltage**  
1500 VDC.



**Withstand up to 5400 Pa**  
Snow load resistance.



**Increased String Length &  
Low BOS Cost**



**Withstand up to 2400 Pa**  
Wind load resistance.



**Glass-To-Glass Construction**  
Enhanced durability, moisture resistance.

### Aarksol Renewables Private Limited

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\*Due to continuous product updation, specifications may change without notice



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## AARKSOL-Rn Series

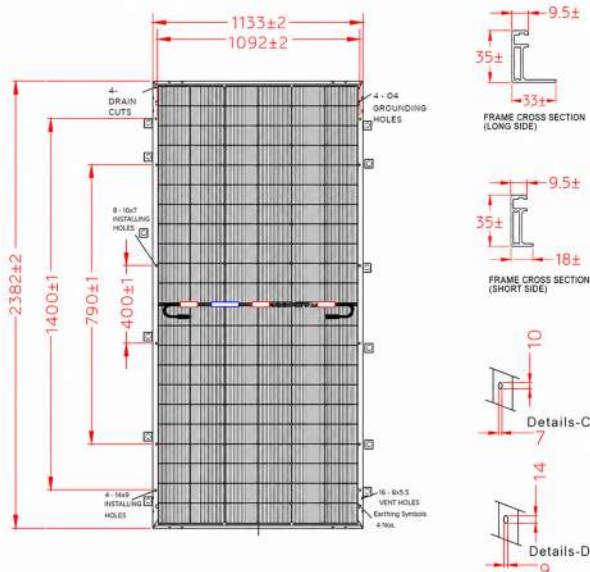
### N Type Topcon PV Modules

#### Mechanical Data

|                        |                                                                                    |
|------------------------|------------------------------------------------------------------------------------|
| Cell type / No Of Cell | 132 Half-cut N-type TOPCon Bifacial G12R Solar cells                               |
| Dimensions             | 2382×1134×30mm (LxWxH)                                                             |
| Weight (Kg)            | 33.5±0.5 Kg                                                                        |
| Front Glass            | 2.0mm AR-coated heat-strengthened glass                                            |
| Encapsulate            | PID resistant and UV resistant polymeric film                                      |
| Rear Glass             | 2.0mm heat-strengthened glass                                                      |
| Junction Box           | 30A Split Junction Box (3 nos. with individual Bypass Diode) - Weatherproof (IP68) |
| Solar Cable            | 4 sqmm, 300 mm length x 2 Nos.                                                     |
| Connectors             | MC4 Compatible Connector IEC/UL Certified                                          |
| Frame Material         | Anodized aluminum alloy, silver color                                              |
| Mechanical Load Test   | 5400 Pa (Snow load), 2400 Pa (Wind load)                                           |
| Hail Test              | Max. diameter of 25 mm with velocity 23 m/s                                        |
| Standard Packaging     | 37 Pieces/Pallet                                                                   |

#### Mechanical Loading

|                                   |        |
|-----------------------------------|--------|
| Front Side Maximum Static Loading | 5400Pa |
| Rear Side Maximum Static Loading  | 2400Pa |



\*STC: Irradiance 1000 W/m<sup>2</sup>, module temperature 25°C, AM=1.5;

\*NOCT: Irradiance 800 W/m<sup>2</sup>, ambient temperature 20°C, AM=1.5, Wind speed 1m/sec. Average power reduction of 4.5% at 200 W/m<sup>2</sup>. Measuring Uncertainty 0-3%

| Module Type                 | STC   | STC   | STC   | STC   | STC   | STC   | STC   |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|
| Peak Power - Pmax           | 600   | 605   | 610   | 615   | 620   | 625   | 630   |
| Maximum voltage (Vmpp)      | 40.44 | 40.52 | 40.60 | 40.68 | 40.75 | 40.84 | 40.92 |
| Maximum current (Impp)      | 14.84 | 14.93 | 15.03 | 15.12 | 15.21 | 15.30 | 15.40 |
| Open circuit voltage (Voc)  | 46.81 | 46.93 | 47.05 | 47.06 | 47.25 | 47.36 | 47.47 |
| Short circuit current (Isc) | 15.5  | 15.61 | 15.65 | 15.69 | 15.73 | 15.76 | 15.79 |
| Module Efficiency           | 22.14 | 22.33 | 22.60 | 22.79 | 22.97 | 23.16 | 23.35 |

|                                      |               |                                           |                          |
|--------------------------------------|---------------|-------------------------------------------|--------------------------|
| Operating Temperature range (°C)     | -40 to +85°C  | Power Tolerance                           | Positive Power Tolerance |
| Maximum system voltage               | DC1500V (IEC) | Nominal operating cell temperature (NOCT) | 45 ± 2 °C                |
| Maximum series fuse rating           | 30A           | Application                               | Class - A                |
| Temperature coefficients of Isc (α)  | 0.044%/°C     | Safety Class                              | Class - II               |
| Temperature coefficients of Pmax (γ) | -0.30%/°C     | Application Rating                        | Class - A                |
| Temperature coefficients of Voc (β)  | -0.25%/°C     |                                           |                          |

| Bifacial Gain | Measurement          | Unit | 600   | 605   | 610   | 615   | 620   | 625   | 630   |
|---------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|
| 5%            | Maximum Power (Pmax) | Wp   | 630   | 635   | 641   | 646   | 651   | 656   | 662   |
|               | Module Efficiency    | %    | 23.26 | 23.45 | 23.64 | 23.84 | 24.03 | 24.22 | 24.42 |
| 10%           | Maximum Power (Pmax) | Wp   | 660   | 666   | 671   | 677   | 682   | 688   | 693   |
|               | Module Efficiency    | %    | 24.36 | 24.57 | 24.77 | 24.97 | 25.18 | 25.38 | 25.58 |
| 15%           | Maximum Power (Pmax) | Wp   | 690   | 696   | 702   | 707   | 713   | 719   | 725   |
|               | Module Efficiency    | %    | 25.47 | 25.68 | 25.90 | 26.11 | 26.32 | 26.53 | 26.74 |

#### Packaging Configuration

|                           |            |
|---------------------------|------------|
| Modules per Box           | 37 Pieces  |
| Modules per 40' Container | 620 Pieces |

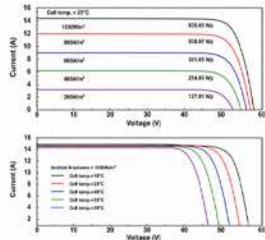
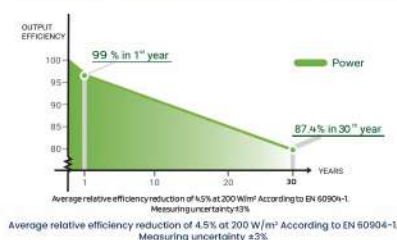
#### Warranty

|                      |                                                                          |
|----------------------|--------------------------------------------------------------------------|
| Product Warranty     | 12 Years                                                                 |
| Performance Warranty | 30 Year linear power warranty<br>0.40% Annual degradation over 30 years. |

#### Certifications



\*Note : These certificates are under process.



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