



Power Tolerance
+4.99 Wp



Efficiency Up To
23.35%



Module Warranty
12 Years



Output Warranty
30 Years

AARKSOL-R 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



**Power You
Can Trust!**

AARKSOL-R Series

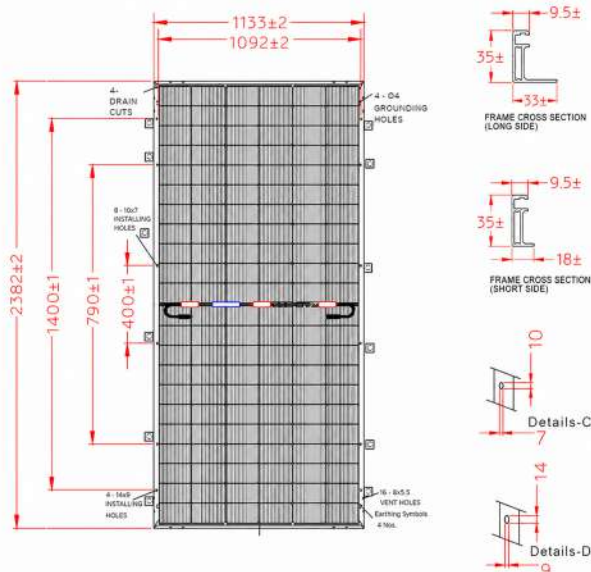
N Type Topcon PV Modules

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/m², module temperature 25°C, AM=1.5;

*NOCT: Irradiance 800 W/m², ambient temperature 20°C, AM=1.5, Wind speed 1m/sec. Average power reduction of 4.5% at 200 W/m². 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

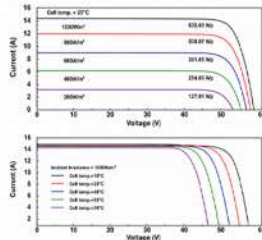
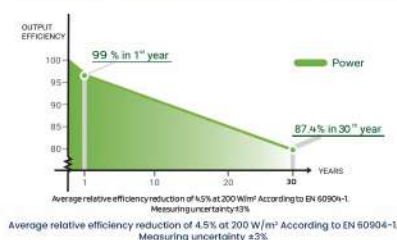
Warranty

Product Warranty	12 Years
Performance Warranty	30 Year linear power warranty 0.40% Annual degradation over 30 years.

Certifications



*Note : These certificates are under process.



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