



NOVEX Prime[®]

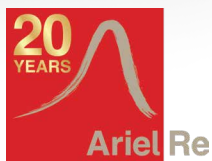
VSN-G12R-66H
570-630 WATT

12 Years
Product Warranty

G12R

30 Years
Linear Power Warranty*

Warranty insured by



1%

First-year
Degradation*

0.4%

Annual Degradation*
Over 30 Years



Bi-facial Capabilities

The dual-sided power generation gain is enhanced by exposing the backside to light, leading to a significant reduction in LCOE.



Low Light Performance

Advanced glass and cell surface textured design ensure excellent performance in low-light environment.



Anti PID

Minimizes degradation risks from PID phenomena through optimized cell production technology and stringent material control.



AR Glass For Enhanced Power

Anti-reflective glass (AR Glass) allows more light to pass through the glass.

Electrical Data At 1000W/m², 25° C, Ambient Temperature, 1.5 m/s Wind Velocity*

Peak Power Pmax (Wp)	570	575	580	585	590	595	600	605	610	615	620	625	630
Max Voltage Vmpp (V)	38.92	39.03	39.14	39.25	39.36	39.47	39.58	39.69	39.80	39.91	40.02	40.15	40.26
Max Current Impp (A)	14.64	14.73	14.80	14.90	15.00	15.07	15.16	15.25	15.33	15.40	15.50	15.55	15.65
Open Circuit Voltage Voc (V)	46.24	46.38	46.52	46.66	46.80	46.94	47.08	47.22	47.36	47.50	47.63	47.77	47.91
Short Circuit Current Isc (A)	15.43	15.51	15.60	15.69	15.78	15.87	15.90	15.95	15.99	16.00	16.05	16.10	16.12
Module Efficiency (%)	21.10	21.29	21.45	21.66	21.87	22.03	22.22	22.42	22.60	22.76	22.97	23.12	23.34

Note: Measurement uncertainty of +/-3%

Electrical Data At NOCT At 800W/m², 20° C, Ambient Temperature, 1 m/s Wind Velocity*

Peak Power Pmax (Wp)	455.43	459.42	463.42	467.41	471.41	475.40	479.4	483.39	487.39	491.38	495.38	499.37	503.37
Max Voltage Vmpp (V)	38.86	38.97	39.08	39.19	39.30	39.41	39.52	39.63	39.74	39.85	39.96	40.09	40.20
Max Current Impp (A)	11.71	11.78	11.84	11.92	12	12.05	12.12	12.2	12.26	12.32	12.4	12.44	12.52
Open Circuit Voltage Voc (V)	46.18	46.32	46.46	46.60	46.74	46.88	47.02	47.16	47.30	47.44	47.57	47.71	47.85
Short Circuit Current Isc (A)	12.40	12.45	12.50	12.55	12.60	12.65	12.70	12.75	12.78	12.81	12.83	12.87	12.87

Note: Measurement uncertainty of +/-3%

Electrical Characteristics With Different Rear Side Power Gain*

Pmax (Wp)	598.5	603.75	609	614.25	619.5	624.75	630	635.25	640.5	645.75	651	656.25	661.5
Efficiency (5%)	28.50	28.75	29.00	29.25	29.50	29.75	30.01	30.26	30.51	30.76	31.01	31.26	31.51
Pmax (Wp)	655.3	661.1	666.2	672.5	679	684	690	696.1	701.7	706.8	713.4	718	724.6
Efficiency (15%)	31.21	31.49	31.73	32.03	32.34	32.58	32.86	33.15	33.42	33.66	33.98	34.20	34.51
Pmax (Wp)	712.2	718.6	724.1	731	738	743.5	750	756.6	762.7	768.3	775.4	780.4	787.6
Efficiency (25%)	33.92	34.23	34.49	34.82	35.15	35.41	35.72	36.03	36.32	36.59	36.93	37.17	37.51

Note: Bifacial power gain depends upon actual site conditions and plant design like tilt angle, albedo, MMS height, Rear surface, GCR, array shadow etc.

Operating Condition

Power Tolerance	0~+5W
Maximum System Voltage	1500
Maximum Series Fuse Rating	30A
Nominal Operating Cell Temperature (NOCT)	45±2 °C
Max. Surface Load Capacity, Pa	5400
Max. Wind Speed Capacity, Pa	2400
Safety Class	Class II
Hail Impact Velocity, m/sec	23

Mechanical Characteristics

Cell Type	N-Type TOPCon
No. Of Cells	132 (66 x 2) Pcs
Dimensions	2382 * 1134 * 35mm
Weight	33.8 kg
Front Glass	2.0 mm, Low Iron, Heat Strengthened AR Coated
Back Glass	2.0 mm, Low Iron, Heat Strengthened Glass
Frame	T6 Anodized Aluminum Alloy
Junction Box	IP 68, Split Junction Box With Individual Bypass Diodes
Output Cables	4 mm ² cable, (+): 400mm, (-): 400mm Or Customized Length

Packaging Configuration

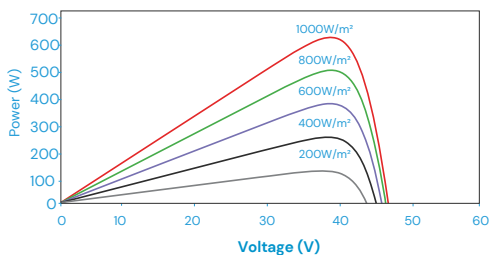
Container	40'HC	
Height Of Modules (mm)	35	30
Number Of Modules Per Pallet	31	36
Number Of Pallets Per Container	20	20
Number Of Modules Per Container	620	720

Temperature Coefficients

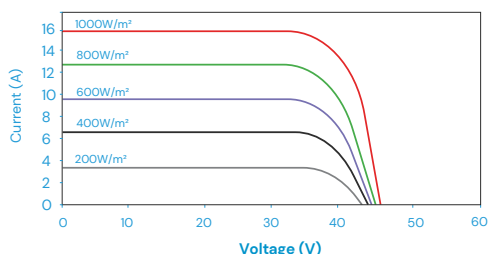
Tc Of Open Circuit Voltage (β)	-0.27%/°C
Tc Of Short Circuit Current (α)	0.024%/°C
Tc Of Power (γ)	-0.32%/°C
Temperature Range	-40°C TO + 85°C

Electrical Performance

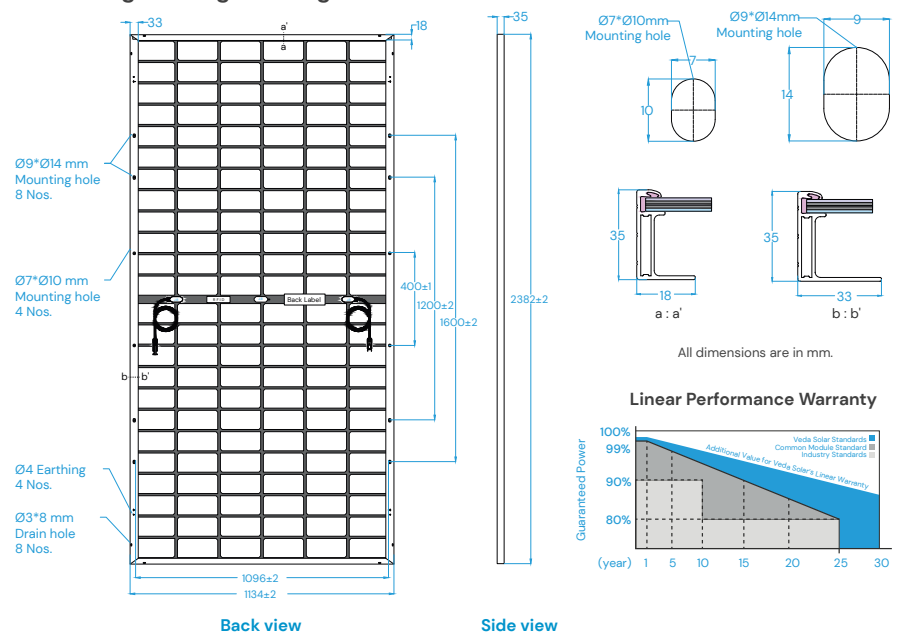
Power-Voltage Curves (VSN-G12R-66H 630 W)



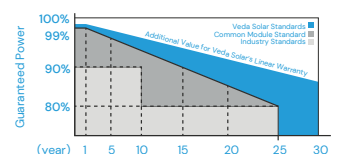
Current-Voltage Curves (VSN-G12R-66H 630 W)



Engineering Drawing



Linear Performance Warranty





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