

605-630W

SUBSTRATE
GLASS ●
MESH GLASS ●

FRAME TYPE
ALUMINIUM ●
STEEL ●

FRAME VARIANT
SILVER ●
BLACK ●

MAXIMUM EFFICIENCY %

23.30

CELL TYPE

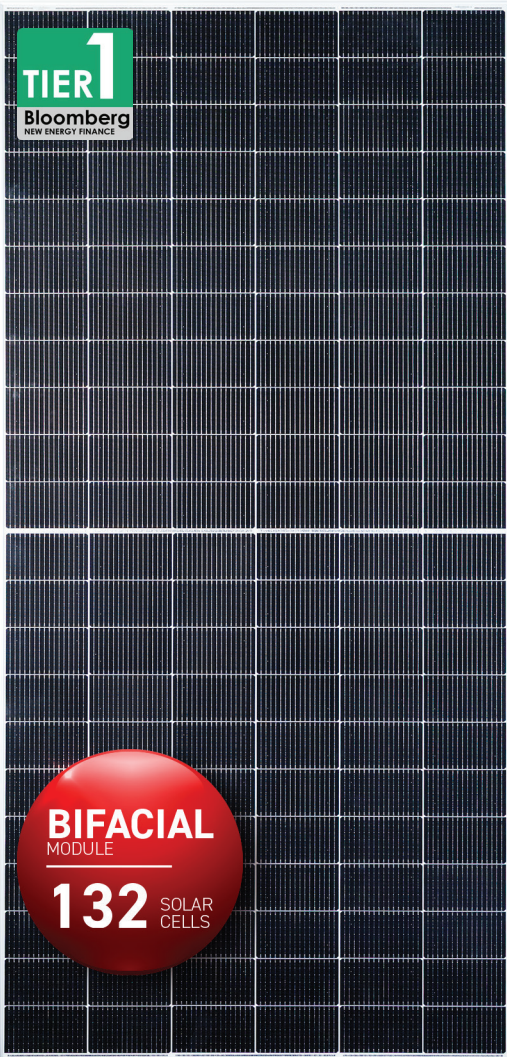
G12R HALF CUT

PRODUCT WARRANTY

12 YEARS

PERFORMANCE WARRANTY

30 YEARS



LOWER LCOE

- Lower balance of systems cost
- Improved value proposition of the product with competitive ROI



0% NEGATIVE POWER TOLERANCE

- Positive power tolerance of upto 0 ~ 4.99Wp
- Module current binning radically reduces string mismatch losses



IMPROVED LONGEVITY

- Excellent anti-PID performance via optimized process and materials control
- Lower susceptibility to LID & LeTID



PREMIUM PERFORMANCE PARAMETERS

- N-TYPE solar cell upto 80% bifaciality, brings higher energy yield from rear side
- Lower temperature coefficient minimizing generation losses at high temperature



SUPERIOR HAIL TEST PERFORMANCE

- ø 45mm hail test passed from third party laboratory with impact velocity up to 27m/s

PRODUCT CERTIFICATES



SYSTEM CERTIFICATES

IEC 61215 : 2021, IEC 61730, UL 61215, UL 61730, IS 14286, IS/IEC 61730, IEC 61701, IEC 62716, IEC 60068-2-68, CAN-CSA

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION:

- ISO 9001:2015/ Quality Management System
- ISO 14001:2015/ Environmental Management System
- ISO 45001:2018/ Occupational Health and Safety Management System
- SA 8000 :2014/ Social Accountability International

THIS DATASHEET IS APPLICABLE FOR: HYPER SOL VSM DH.66.AAA.05 (AAA=605-630)

ELECTRICAL PARAMETERS | STC^{1,2}

Peak Power P _{max} (Wp)	605	610	615	620	625	630
Maximum Voltage V _{mpp} (V)	40.6	40.8	41	41.2	41.34	41.54
Maximum Current I _{mpp} (A)	14.91	14.96	15.01	15.05	15.13	15.17
Open Circuit Voltage V _{oc} (V)	48.5	48.7	48.9	49.1	49.3	49.5
Short Circuit Current I _{sc} (A)	15.79	15.85	15.91	15.97	16.03	16.09
Module Efficiency (%)	22.38%	22.56%	22.75%	22.93%	23.12%	23.30%

1) STC: 1000 W/M² IRRADIANCE, 25°C CELL TEMPERATURE, AM1.5G SPECTRUM ACCORDING TO EN 60904-3 | 2) TOLERANCE OF RATING AT STC (P_{max} / I_{sc} / V_{oc}) [%]: 0-3/+5/+5 | ELECTRICAL MEASUREMENT UNCERTAINTY IS WITHIN ± 2%

ELECTRICAL PARAMETERS | NOCT³

Peak Power P _{max} (Wp)	456.20	460.00	463.70	467.30	471.50	475.10
Maximum Voltage V _{mpp} (V)	37.80	38.00	38.20	38.30	38.50	38.60
Maximum Current I _{mpp} (A)	12.06	12.11	12.15	12.20	12.26	12.30
Open Circuit Voltage V _{oc} (V)	45.60	45.80	46.00	46.20	46.40	46.60
Short Circuit Current I _{sc} (A)	12.75	12.80	12.85	12.89	12.94	12.99

3) NOCT IRRADIANCE 800 W/M², AMBIENT TEMPERATURE 20°C, WIND SPEED 1 M/SEC

ELECTRICAL PARAMETERS | BNPI^{4,5}

Peak Power P _{max} (Wp)	670.3	675.9	681.4	687.0	692.5	698.0
Maximum Voltage V _{mpp} (V)	40.6	40.8	41	41.2	41.34	41.54
Maximum Current I _{mpp} (A)	16.52	16.58	16.63	16.68	16.76	16.81
Open Circuit Voltage V _{oc} (V)	48.5	48.7	48.9	49.1	49.3	49.5
Short Circuit Current I _{sc} (A)	17.50	17.56	17.63	17.69	17.76	17.83

4) BNPI: 1000W/M²±q.135, BIFACILITY COEFF. (q) AT BNPI P_{max}, I_{sc} IS 75±5% & FOR V_{oc} IS 99±10%, AM 1.5, 25°C | 5) TOLERANCE OF RATING AT BNPI (P_{max} / I_{sc} / V_{oc}) [%]: 0-3/+5/+5

TEMPERATURE COEFFICIENTS (Tc) PERMISSIBLE OPERATING CONDITIONS

Tc of Open Circuit Voltage (β)	-0.26%/°C
Tc of Short Circuit Current (α)	0.046%/°C
Tc of Power (γ)	-0.30%/°C
Maximum System Voltage	1500V
NOCT	45°C ± 2°C
Temperature Range	-40°C to + 85°C

MECHANICAL DATA

Length × Width × Height	2384 X 1134 X 30 mm (93.85 x 44.65 x 1.18 inches)
Weight	32.1Kg ±5% (71.65 lbs)
Junction Box	IP 68, Split Junction Box with individual bypass diodes
Cable & Connectors [#]	1200 mm (+ve terminal) and 1200 mm (-ve terminal) length cables, Staubli Evo Connectors
Application Class	Class A (Safety class II)
Superstrate [#]	2.0 mm (0.098 inches) high transmission ARC Semi-tempered glass (low iron content)
Cells	66 (132 half-cells) N-TYPE bifacial solar cells
Substrate	2.0 mm (0.098 inches) high transmission heat strengthened glass/ mesh glass [#] (low iron content)
Frame	Anodized aluminium/ Alloy steel frame [#]
Mechanical Load Test	5400 Pa (Snow load), 2400 Pa (Wind load)
Cell Encapsulant	EPE/ EVA
Maximum Series Fuse Rating	30 A
Hail Test	∅ 45mm Impact Velocity up to 27m/s

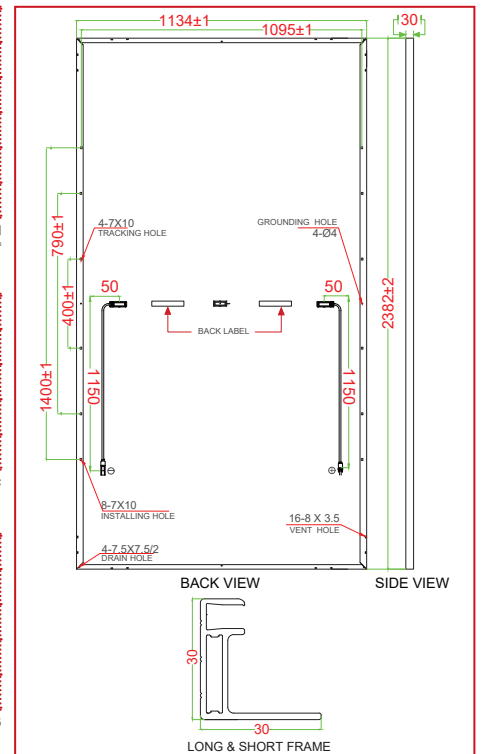
WARRANTY

Product Warranty ^{**}	12 years
Performance Warranty ^{**}	Linear Power Warranty for 30 years with 1% for 1 st year degradation and 0.4% from year 2 to year 30

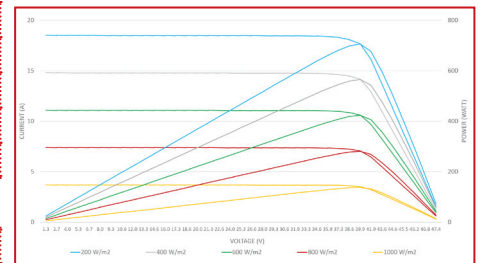
CAUTION: READ SAFETY AND INSTALLATION MANUAL BEFORE USING THE PRODUCT.

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DIMENSIONS IN MM

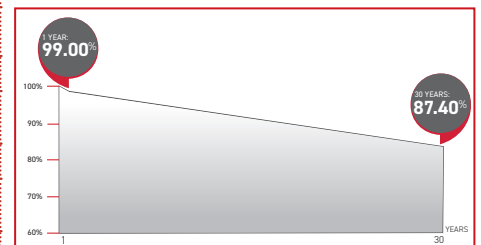


TYPICAL I-V CURVES⁶



6) AVERAGE RELATIVE EFFICIENCY REDUCTION OF 5% AT 200 W/M² ACCORDING TO EN 60904-1

PERFORMANCE WARRANTY



PACKAGING INFORMATION

Quantity /Pallet	36
Pallets/Container (40'HC)	20
Quantity/Container (40'HC)	720

All () certifications under progress. | **Refer to Vikram Solar's warranty document for terms and conditions. | *1000mm(39.37 inches), 1300mm(51.12 inches), 1400mm (55.12 inches) cable lengths are also available | #Anti-glare Glass is also available | #As per applicable product | *With additional Cost & Lead Time subject to availability | STC : Standard Testing Condition | BNPI : Bifacial Nameplate Irradiance | NOCT : Nominal Operating Cell Temperature