

705-730W

SUBSTRATE
GLASS ●
MESH GLASS ●

FRAME TYPE
ALUMINIUM ●

FRAME VARIANT
SILVER ●
BLACK ●

MAXIMUM EFFICIENCY %

23.5

CELL TYPE

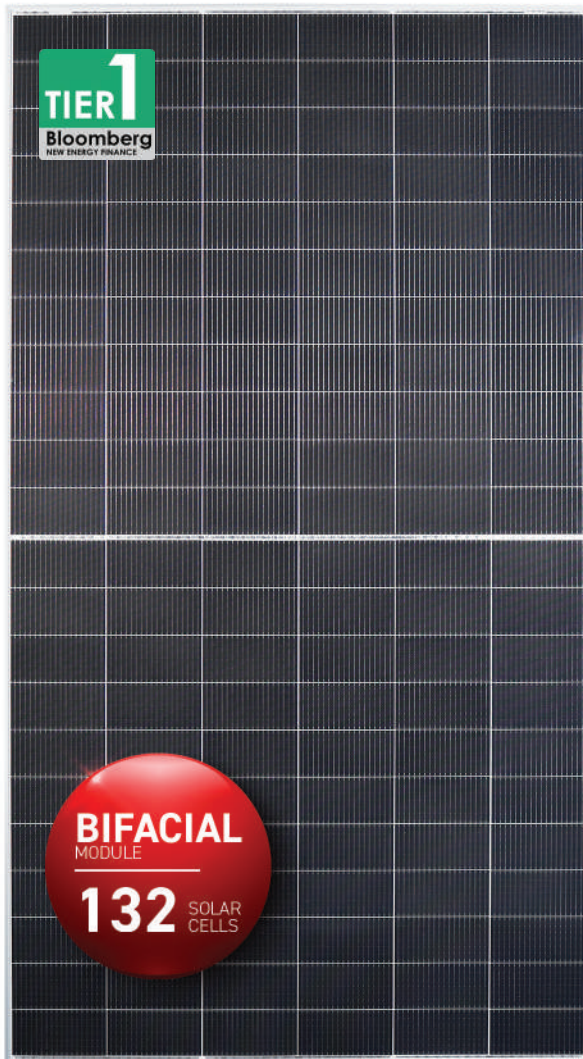
G12 HALF CUT

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

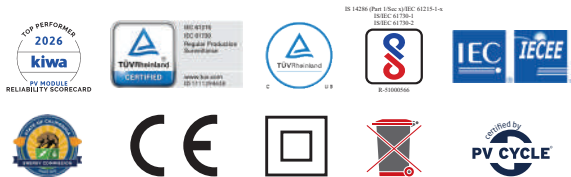
- N-TYPE solar cell upto 80% bifaciality, brings higher energy yield from rear side
- Lower temperature coefficient minimizing generation losses at high temperature



SUPERIOR HAIL TEST PERFORMANCE

- ≥ Ø35mm hail test passed from third party laboratory

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: HYPERSOL VSM DH.66.AAA.05 (AAA=705-730)

ELECTRICAL PARAMETERS | STC^{1,2}

Peak Power P_{max} (Wp)	705	710	715	720	725	730
Maximum Voltage V_{mpp} (V)	40.6	40.8	41	41.2	41.4	41.6
Maximum Current I_{mpp} (A)	17.37	17.41	17.45	17.49	17.52	17.56
Open Circuit Voltage V_{oc} (V)	48.8	49	49.2	49.4	49.6	49.8
Short Circuit Current I_{sc} (A)	18.4	18.44	18.48	18.52	18.56	18.6
Module Efficiency (%)	22.7	22.86	23.02	23.18	23.34	23.5

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)	530.9	535.4	539.7	543.1	546.3	550.15
Maximum Voltage V_{mpp} (V)	37.9	38.1	38.3	38.4	38.6	38.8
Maximum Current I_{mpp} (A)	14.01	14.05	14.09	14.13	14.15	14.19
Open Circuit Voltage V_{oc} (V)	45.9	46.1	46.3	46.5	46.6	46.8
Short Circuit Current I_{sc} (A)	14.86	14.89	14.92	14.95	14.98	15.01

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)	776.4	781.9	787.4	792.9	798.4	803.9
Maximum Voltage V_{mpp} (V)	40.6	40.8	41	41.2	41.4	41.6
Maximum Current I_{mpp} (A)	19.13	19.17	19.22	19.26	19.29	19.34
Open Circuit Voltage V_{oc} (V)	48.8	49	49.2	49.4	49.6	49.8
Short Circuit Current I_{sc} (A)	20.26	20.31	20.35	20.4	20.44	20.48

4) BNPI: 1000W/M² ± 0.135, BIFACILITY COEFF. (g) 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)	-0.25%/°C
Tc of Short Circuit Current (α)	0.045%/°C
Tc of Power (γ)	-0.28%/°C
Maximum System Voltage	1500V
NOCT	45°C ± 2°C
Temperature Range	-40°C to + 85°C

MECHANICAL DATA

Length × Width × Height	2384 X 1303 X 33 mm (93.86 x 51.30 x 1.3 inches)
Weight	37.5 ± 5% Kg (82.67 lbs)
Junction Box	IP 68, Split Junction Box with individual bypass diodes
Cable & Connectors*	400 mm (+ve terminal) and 400 mm (-ve terminal) length cables, MC4 Compatible/Staubli EVO connectors
Application Class	Class A (Safety class II)
Superstrate**	2.0 mm (0.08 inches) high transmission ARC Semi-tempered glass (low iron content)
Cells	66 (132 half-cells) N-TYPE bifacial solar cells
Substrate	2.0 mm (0.08 inches) high transmission heat strengthened glass/mesh glass (low iron content)
Frame	Anodized aluminium
Mechanical Load Test	5400 Pa (Snow load), 2400 Pa (Wind load)
Cell Encapsulant	EPE/EPE
Maximum Series Fuse Rating	35 A
Hail Test	≥ Ø 35mm

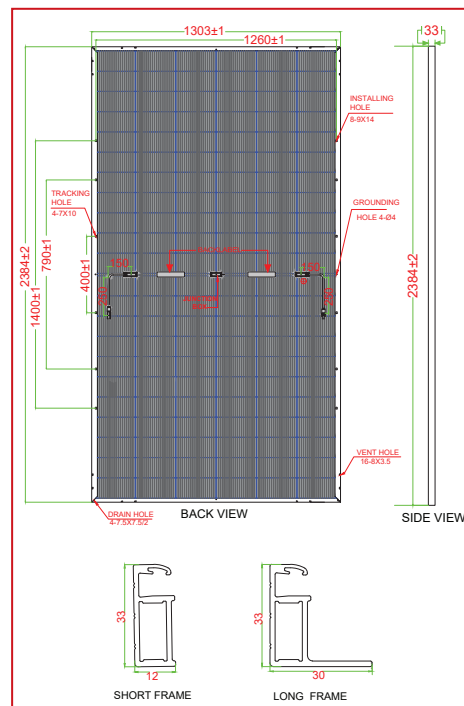
WARRANTY

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

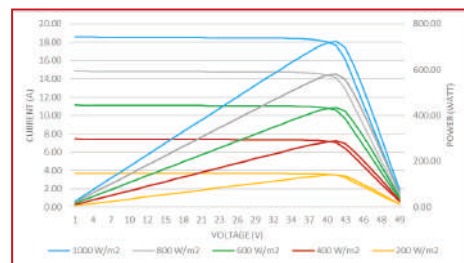
CAUTION: READ SAFETY AND INSTALLATION MANUAL BEFORE USING THE PRODUCT.

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DIMENSIONS IN MM

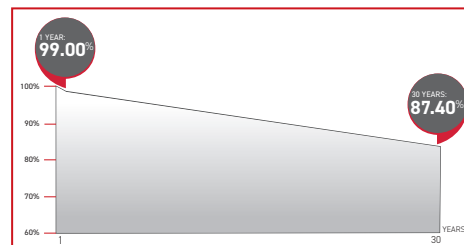


TYPICAL I-V CURVES⁶



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

PERFORMANCE WARRANTY



PACKAGING INFORMATION

Quantity /Pallet	33
Pallets/Container (40'HC)	18
Quantity/Container (40'HC)	594

All () certifications under progress. | **Refer to Vikram Solar's warranty document for terms and conditions. | #1200mm (47.24 inches), 1400mm (55.12 inches), 1600mm (62.99 inches) cable lengths are also available | ##Anti-glare Glass is also available | *As per applicable product | STC: Standard Testing Condition | BNPI: Bifacial Nameplate Irradiance | NOCT: Nominal Operating Cell Temperature