

710-735W

SUBSTRATE
GLASS ●
MESH GLASS ●

FRAME TYPE
ALUMINIUM ●

FRAME VARIANT
SILVER ●
BLACK ●

MAXIMUM EFFICIENCY %

23.66

CELL TYPE

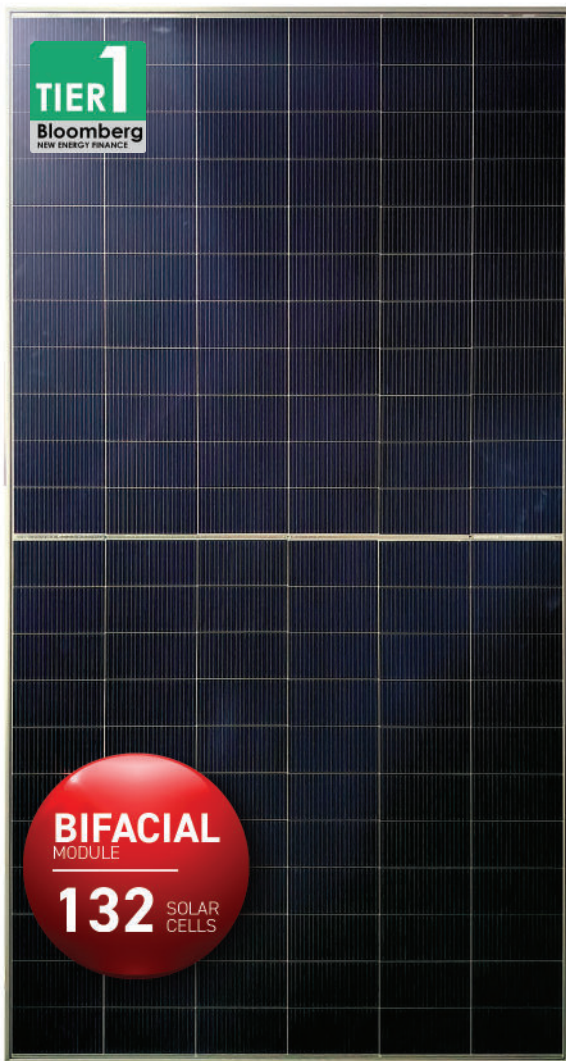
G12 HALF CUT

PRODUCT WARRANTY

12 YEARS

PERFORMANCE WARRANTY

30 YEARS



EXCELLENT LOW-LIGHT PERFORMANCE

- Superior generation with wide spectral response
- Higher performance under low light scenarios



IMPROVED LONGEVITY

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



0% NEGATIVE POWER TOLERANCE

- Positive power tolerance of upto 0 ~ 4.99Wp
- Module I_{mp} binning radically reduces string mismatch losses



PREMIUM PERFORMANCE PARAMETERS

- HJT solar cell upto 95% bifaciality, brings higher energy yield from rear side
- Lower temperature coefficient minimizing generation losses at high temperatures



SUPERIOR HAIL TEST PERFORMANCE

- ø 40mm 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: SURYAVA VSMDH.66.AAA.05 (AAA=710-735)

ELECTRICAL PARAMETERS | STC^{1,2}

Peak Power P_{max} (Wp)	710	715	720	725	730	735
Maximum Voltage V_{mpp} (V)	42.43	42.57	42.72	42.86	43.0	43.2
Maximum Current I_{mpp} (A)	16.74	16.8	16.86	16.92	16.98	17.04
Open Circuit Voltage V_{oc} (V)	50.8	50.95	51.1	51.25	51.4	51.6
Short Circuit Current I_{sc} (A)	17.52	17.58	17.64	17.7	17.76	17.82
Module Efficiency (%)	22.86	23.02	23.18	23.34	23.5	23.66

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)	539.6	543.3	547.3	551.1	555.0	558.8
Maximum Voltage V_{mpp} (V)	40.2	40.3	40.5	40.63	40.8	40.93
Maximum Current I_{mpp} (A)	13.42	13.47	13.51	13.56	13.60	13.65
Open Circuit Voltage V_{oc} (V)	48.2	48.3	48.5	48.63	48.78	48.93
Short Circuit Current I_{sc} (A)	14.13	14.18	14.23	14.28	14.33	14.38

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)	791	797	803	808	813.8	819.3
Maximum Voltage V_{mpp} (V)	42.4	42.6	42.7	42.9	43.0	43.2
Maximum Current I_{mpp} (A)	18.7	18.7	18.8	18.9	18.93	19.0
Open Circuit Voltage V_{oc} (V)	50.8	51	51.1	51.3	51.4	51.6
Short Circuit Current I_{sc} (A)	19.5	19.6	19.7	19.7	19.8	19.86

4) BNPI: 1000W/M²±q.135, BIFACILITY COEFF. (q) AT BNPI P_{max} , I_{sc} IS 90±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)	-0.26%/°C
Maximum System Voltage	1500V
NOCT	45°C ± 2°C
Temperature Range	-40°C to + 85°C

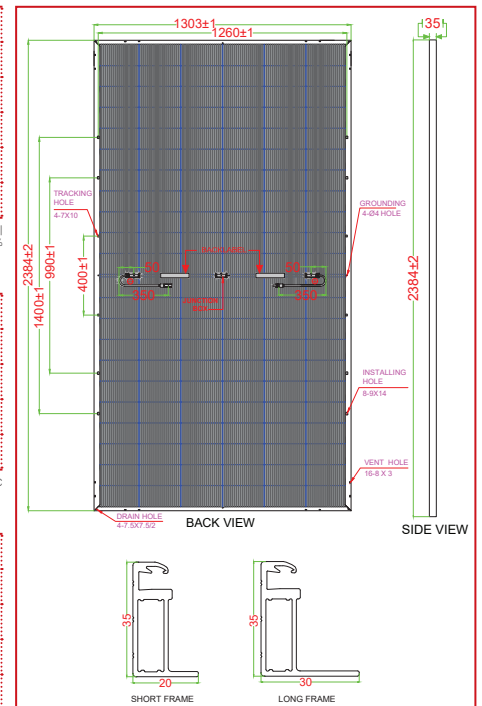
MECHANICAL DATA

Length × Width × Height	2384 X 1303 X 35 mm (93.86 x 51.30 x 1.38 inches)
Weight	39.5 Kg (87.08 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 (0.098 inches) high transmission ARC Semi-tempered glass (low iron content)
Cells	66 (132 half-cells) N- TYPE HJT bifacial solar cells
Substrate	2.0 mm (0.098 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/ EVA
Maximum Series Fuse Rating	30 A
Hail Test	Ø 40mm

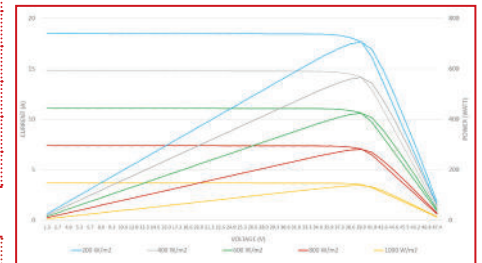
WARRANTY

Product Warranty**	12 years
Performance Warranty**	Linear Power Warranty for 30 years with 1% for 1 st year degradation and 0.38% from year 2 to year 30

DIMENSIONS IN MM

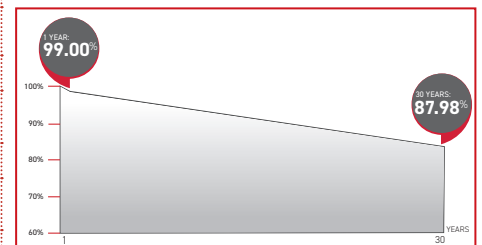


TYPICAL I-V CURVES⁶



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

PERFORMANCE WARRANTY



PACKAGING INFORMATION

Quantity /Pallet	31
Pallets/Container (40'HC)	17
Quantity/Container (40'HC)	527

All () certifications under progress. | **Refer to Vikram Solar's warranty document for terms and conditions. | *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

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

Specifications included in this datasheet are subject to change without notice. Electrical data without guarantee. Please confirm your exact requirement with the company representative while placing your order. Vikram Solar and all its accompanying logos are trademarks of Vikram Solar Limited registered in India.