

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}

| Parameter | 710 | 715 | 720 | 725 | 730 | 735 |
|------------------------------------|-------|-------|-------|-------|-------|-------|
| 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 |

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

ELECTRICAL PARAMETERS | NOCT³

| Parameter | 539.6 | 543.3 | 547.3 | 551.1 | 555.0 | 558.8 |
|------------------------------------|-------|-------|-------|-------|-------|-------|
| 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 |

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

ELECTRICAL PARAMETERS | BNPI^{4,5}

| Parameter | 791 | 797 | 803 | 808 | 813.8 | 819.3 |
|------------------------------------|------|------|------|------|-------|-------|
| 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 |

⁴BNPI: 1000W/M²+φ.135, BIFACILITY COEFF. (φ) AT BNPI P_{max} , I_{sc} IS 90±5% & FOR V_{oc} IS 99±10%, AM 1.5, 25°C | ⁵TOLERANCE 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 |

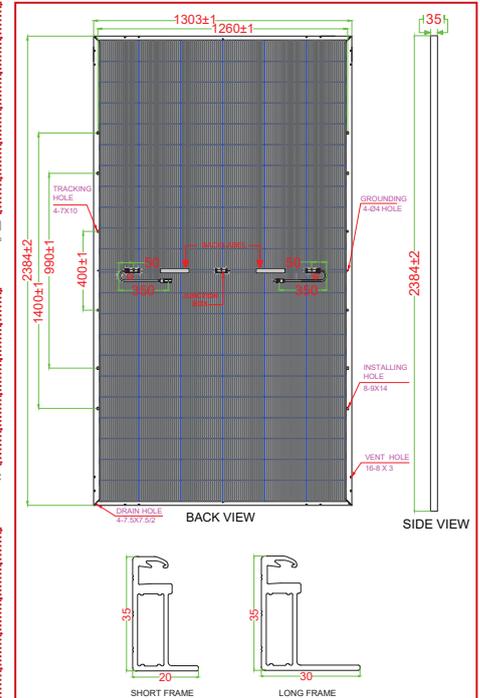
MECHANICAL DATA

| | |
|---------------------------------|--|
| 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 |

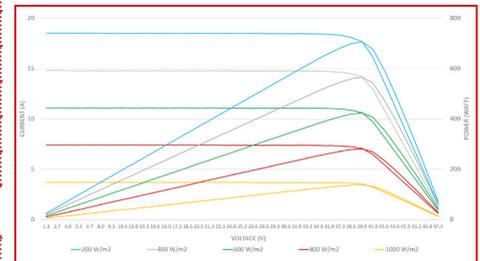
WARRANTY

| | |
|------------------------------------|--|
| 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

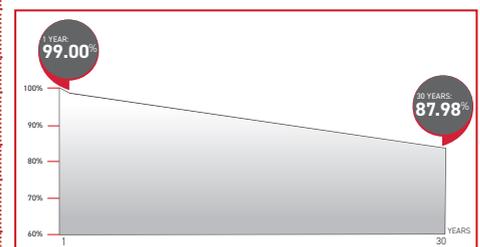


TYPICAL I-V CURVES⁶



⁶AVERAGE 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.

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