

635-670W

MAXIMUM EFFICIENCY %

POSITIVE POWER TOLERANCE WP

21.57

0~+4.99

G12 132

MODULE TECHNOLOGY HALF CUT & MICRO GAP DESIGN WITH IMPROVED SHADE TOLERANCE





TECHNICAL DATA SOMERA 635-670W

THIS DATASHEET IS APPLICABLE FOR: SOMERA VSMH.66.AAA.05 (AAA=635-670)

Electrical Data^{1,2} All data refers to STC (AM 1.5, 1000 W/m², 25°C)

Temperature Coefficients (Tc) permissible operating conditions

33.6 Kg (74.08 lbs)

ble/MC4 Connectors

Composite film

30A

year 2 to year 27

12 years

Class A (Safety class II)

EVA (Ethylene-vinyl acetate)

CEC (California), UL 61215, UL 61730, CAN-CSA

Peak Power P _{max} (Wp)	635	640	645	650	655	660	665	670
Maximum Voltage V _{mpp} (V)	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9
Maximum Current I _{mpp} (A)	15.8	15.89	15.97	16.05	16.14	16.22	16.3	16.39
Open Circuit Voltage V _{oc} (V)	47.3	47.3	47.4	47.5	47.6	47.7	47.8	48
Short Circuit Current I _{sc} (A)	16.99	17.07	17.15	17.23	17.31	17.4	17.48	17.55
Module Efficiency (%)	20.44	20.60	20.76	20.92	21.09	21.25	21.41	21.57

1) STC:1000 W/m² irradiance, 25°C cell temperature, AM1.5g spectrum according to EN 60904-3. [2) Power measurement uncertainty is within +/- 2%.

-0.27%/°C

0.050%/°C -0.35%/°C

45°C ± 2°C

-40°C to + 85°C

200 mm (+ve terminal) and 300 mm(-ve terminal) length cables,MC4 Compati-

3.2 mm (0.125 inches) high transmission low iron tempered glass, AR coated

1500V

2384 × 1303 × 35mm (93.86 × 51.30 × 1.38 inches)

66 Mono PERC (132 half-cells) P-Type solar cells

Anodized aluminium frame with twin wall profile

5400 Pa (Snow load), 2400 Pa (Wind load)

IP68, Split Junction Box with individual bypass diodes

Electrical Parameters at NOCT³

Tc of Open Circuit Voltage (β) Tc of Short Circuit Current (α)

Maximum System Voltage

Temperature Range

Mechanical Data

Tc of Power (y)

NOCT

Weight

Junction Box

Cable & Connectors#

Application Class

Superstrate##

Cells Back Sheet

Frame

Encapsulant Mechanical Load Test

Maximum Series Fuse Rating

Product Warranty**

Performance

Approvals and

Certificates[^]

Warranty**

Warranty and Certifications

Power (W)	475.2	479.2	482.7	486.3	490.2	494.1	497.2	501.2
V@P _{max} (V)	36.6	36.7	36.8	36.9	37	37.1	37.1	37.3
I@P _{max} (A)	13	13.07	13.13	13.19	13.26	13.33	13.39	13.45
V _{oc} (V)	44	44	44.1	44.2	44.3	44.4	44.5	44.6
I _{sc} (A)	13.74	13.8	13.87	13.93	13.99	14.07	14.13	14.19

3) NOCT irradiance 800 $W/m^2,$ ambient temperature 20°C, wind speed 1 m/sec

Dimensions in mm



Typical I-V Curves⁴



4) Average relative efficiency reduction of 5% at 200 W/m^2 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. | ⁴ 400mm (15.75 inches), 1000mm (39.37 inches), 1200mm (47.24 inches) cable lengths are also available | "'Anti-glare Glass is also available

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

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Linear Power Warranty for 27 years with 2% for 1st year degradation and 0.55% from

IEC 61215 : 2016, IEC 61730 : 2016, IEC 61701, IEC 62716, IEC 60068-2-68, IEC 62804, CE,

VSL/ENG/SC/252/R04