SOMERA ULTIMA SILVER 1500V SERIES

- Extremely NARROW POWER BINNING TOLERANCE of +2.5 Wp to reduce current mismatch loss in single string
- Engineered to provide EXCELLENT LOW LIGHT and LONGER WAVELENGTH RESPONSE
- EXTREMELY RELIABLE PRODUCT suiting harsh environment conditions withstanding 2400Pa Wind load, 5400Pa Snow load
- Using highly efficient PASSIVATED EMITTER REAR CONTACT TECHNOLOGY (PERC) cells
- MAXIMUM SYSTEM VOLTAGE INCREASED TO 1500VDC (IEC & UL), increased string length, low BOS cost

**QUALITY AND SAFETY**
- 27 years of linear power output warranty **
- Rigorous quality control meeting the highest international standards
- 100% EL tested to minimise micro crack
- Excellent anti-PID performance
- Certified for salt mist corrosion resistance – severity VI
- Certified for ammonia resistance

**APPLICATIONS**
- On-grid large scale utility systems
- On-grid rooftop residential and commercial systems
- Off-grid residential systems

**FEATURES**
- 60 cells MONOCRYSTALLINE
- upto 19.36% EFFICIENCY
- 295–315 W RANGE
- 1500V VOLTAGE!
TECHNICAL DATA
SOMERA ULTIMA SILVER 1500V SERIES

THIS DATASHEET IS APPLICABLE FOR: SOMERA VSM.60.AAA.05 (AAA=295-315)

Electrical Data

Electrical Data1,2 All data refers to STC

- Peak Power Pmax (Wp) 295 300 305 310 315
- Maximum Voltage Vmax (V) 32.5 32.7 32.9 33.1 33.3
- Maximum Current Impp (A) 9.08 9.18 9.27 9.37 9.47
- Open Circuit Voltage Voc (V) 40.1 40.3 40.5 40.7 40.9
- Short Circuit Current Isc (A) 9.58 9.68 9.8 9.91 10.02
- Module Efficiency η (%) 18.13 18.44 18.75 19.05 19.36

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

Electrical Parameters at NOCT3

- Power (W) 218.4 222.1 225.8 229.5 233.2
- Vmp (V) 30.0 30.2 30.4 30.6 30.8
- Impp (A) 7.27 7.35 7.42 7.50 7.58
- Voc (V) 37.1 37.3 37.5 37.6 37.8
- Isc (A) 7.75 7.83 7.93 8.02 8.11

3) NOCT: irradiance 800 W/m², ambient temperature 20°C, wind speed 1 m/sec

Temperature Coefficients (Tc) permissible operating conditions

- Tc of Open Circuit Voltage (β) -0.28%/°C
- Tc of Short Circuit Current (α) 0.057%/°C
- Tc of Power (γ) -0.39%/°C

Mechanical Data

- Length × Width × Height 1640 × 992 × 40 mm (64.57 × 39.05 × 1.57 inches)
- Weight 18.50 kg (40.79 lbs)
- Junction Box IP68/IP67, 3 Bypass diodes
- Cable & Connectors 1200 mm (47.24 inches) length cables, MC4 Compatible/MC4 Connectors/Amphenol
- Application Class Class A (Safety class II)
- Superstrate 3.2 mm (0.13 inches) high transmission low iron tempered glass, AR coated
- Cells 60 Monocrystalline, 5BB solar cells
- Cell Encapsulant EVA (Ethylene Vinyl Acetate)
- Back Sheet Composite film
- Frame Anodized aluminium frame with twin wall profile
- Mechanical Load Test 5400 Pa (Snow load), 2400 Pa (wind load)
- Maximum Series Fuse Rating 15A (IEC)/ 20A (UL)

Warranty and Certifications

- Product Warranty** 12 years
- Performance Warranty** Linear Power Warranty for 27 years with 3% for 1st year degradation and 0.65% from year 2 to year 27
- Approvals and Certificates IEC 61215 Ed2, IEC 61730, IEC 61714, IEC 62716, MCS, IEC 62804, IEC 60068-2-68, CE, UL 1703, IS14286

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

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.
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Dimensions in mm

Typical Electrical Curves4

Performance Warranty

Packaging Information

- Quantity/Pallet 25
- Pallets/Container (40’HC) 28
- Quantity/Container (40’HC) 700

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