ALL NEW 60 CELLS MONO
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

EXremely RELIABLE PRODUCT
suiting harsh environment conditions
withstanding 2400Pa Wind load,
5400Pa Snow load and Dynamic Wind 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 ensure micro crack free modules
• Certified for PID resistance
• Certified for salt mist corrosion resistance – severity VI
• Certified for Sand and Dust test

APPLICATIONS
• On-grid large scale utility systems
• On-grid rooftop residential and commercial systems
• Off-grid residential systems
TECHNICAL DATA
SOMERA ULTIMA SILVER 1500V SERIES

THIS DATASHEET IS APPLICABLE FOR: SOMERA VSM.60.AAA.05 (AAA=285-315)

Electrical Data1,2 All data refers to STC

- Peak Power Pmax (Wp) 285.0 287.5 290.0 292.5 295.0 297.5 300.0 302.5 305.0 307.5 310.0 312.5 315.0
- Maximum Voltage Vmp (V) 32.1 32.2 32.3 32.4 32.5 32.6 32.7 32.8 32.9 33.0 33.1 33.2 33.3
- Open Circuit Voltage Voc (V) 39.7 39.8 39.9 40.0 40.1 40.2 40.3 40.4 40.5 40.6 40.7 40.8 40.9
- Module Efficiency η (%) 17.52 17.67 17.83 17.98 18.13 18.29 18.44 18.59 18.75 18.90 19.05 19.21 19.36

Electrical Parameters at NOCT3

- Power (W) 211.0 213.0 215.0 216.0 218.0 220.0 222.0 224.0 226.0 227.0 229.0 231.0 233.0
- Vmp (V) 30.5 30.6 30.7 30.8 30.9 31.0 31.1 31.2 31.3 31.4 31.5 31.6 31.7
- Imp (A) 6.95 7.00 7.03 7.08 7.12 7.15 7.20 7.23 7.27 7.31 7.35 7.39 7.43
- Voc (V) 38.4 38.4 38.6 38.8 38.8 38.9 39.0 39.1 39.2 39.3 39.4 39.5
- Isc (A) 7.42 7.46 7.50 7.55 7.60 7.65 7.68 7.73 7.77 7.82 7.86 7.91 7.95

Temperature Coefficients (Tc) permissable 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
- Maximum System Voltage 1500 V
- NOCT 45°C ± 2°C
- Temperature Range -40°C to + 85°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 15 A

Warranty and Certifications

- Product Warranty** 12 years
- Performance Warranty** Linear Power Warranty for 27 years with 3% for 1st year degradation and 0.65% per year to year 27
- Approvals and Certificates IEC 61215 Ed2, IEC 61730, IEC 61701, IEC 62714, IEC 62804, UL 1703, CE, MCS, CEC, PV Cycle*, CEC (Australia)*, JET*, CAN/CSA 61730

Dimensions in mm

- Typical Electrical Curves

Performance Warranty

Packaging Information

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

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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