SOMERA GRAND ULTIMA SILVER

10% HIGHER POWER OUTPUT compared to industry average poly crystalline module

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

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
- 3rd Party validated PAN file
- Certified for sand and dust test
- No negative tolerance

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

SOMERA GRAND ULTIMA SILVER

THIS DATASHEET IS APPLICABLE FOR: SOMERA VSM.72.AAA.05 (AAA=365-385)

Electrical Data

All data refers to STC

<table>
<thead>
<tr>
<th>Peak Power P_{max} (Wp) (0 ~ +2.49Wp)</th>
<th>365 367.5 370 372.5 375 377.5 380 382.5 385</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Voltage V_{max} (V)</td>
<td>39.8 39.9 40.0 40.0 40.1 40.1 40.2 40.3 40.3</td>
</tr>
<tr>
<td>Open Circuit Voltage V_{oc} (V)</td>
<td>48.3 48.4 48.5 48.6 48.7 48.7 48.8 48.9 48.9</td>
</tr>
<tr>
<td>Short Circuit Current I_{sc} (A)</td>
<td>9.73 9.78 9.84 9.89 9.94 9.99 10.04 10.09 10.14</td>
</tr>
<tr>
<td>Module Efficiency η (%)</td>
<td>18.84 18.97 19.10 19.23 19.36 19.48 19.61 19.74 19.87</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Power (W)</th>
<th>270.2 272.1 273.9 275.8 277.6 279.4 281.2 283.1 284.9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voc_{max} (V)</td>
<td>36.8 36.8 36.9 37.0 37.1 36.9 37.0 37.1 37.1</td>
</tr>
<tr>
<td>Ip_{max} (A)</td>
<td>7.34 7.38 7.41 7.45 7.49 7.54 7.57 7.59 7.65</td>
</tr>
<tr>
<td>V_{oc} (V)</td>
<td>44.7 44.8 44.9 45.0 45.0 44.8 44.9 45.0 45.0</td>
</tr>
<tr>
<td>I_{sc} (A)</td>
<td>7.87 7.91 7.96 8.00 8.04 7.99 8.03 8.07 8.11</td>
</tr>
</tbody>
</table>

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: 1955 × 991 × 40 mm (76.96 × 39.01 × 1.57 inches)
- Weight: 22 kg (48.50 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: 72 Mono PERC, 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)

<table>
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<th>WARRANTY AND CERTIFICATIONS</th>
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</table>

Product Warranty** | 10 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, UL 1703, IEC 61701, IEC 62714, IEC 60068-2-68, IEC 62804a, MCS, CE, CAN/CSA 61703, CEC (California)*, PV Cycle*

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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