ELDORA GRAND ULTIMA SILVER SERIES

**HIGHER OUTPUT OF MODULE POWER**
by reducing cell to module power loss

Designed for very **HIGH AREA EFFICIENCY** ideally suited for roof-top and ground-mounted applications

**Extremely NARROW POWER BINNING TOLERANCE** of +2.5 Wp to reduce current mismatch loss in single string

**EXTREMELY RELIABLE PRODUCT**
suiting harsh environment conditions
withstanding 2400Pa Wind load, 5400Pa Snow load

Engineered to provide **EXCELLENT LOW LIGHT RESPONSE**

**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
- Certified for sand and dust test

**APPLICATIONS**
- On-grid large scale utility systems
- On-grid rooftop residential, commercial and industrial roof top installations
- Off-grid residential systems
- Solar pumping applications
TECHNICAL DATA
ELDORA GRAND ULTIMA SILVER SERIES

THIS DATASHEET IS APPLICABLE FOR: ELDORA VSP.72.AAA.03.04 (AAA=315-335)

Electrical Data\(^1,2\) All Data refers to STC

### Peak Power \(P_{\text{max}}\) (Wp)

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>315.0</td>
<td></td>
</tr>
<tr>
<td>317.5</td>
<td></td>
</tr>
<tr>
<td>320.0</td>
<td></td>
</tr>
<tr>
<td>322.5</td>
<td></td>
</tr>
<tr>
<td>325.0</td>
<td></td>
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<tr>
<td>327.5</td>
<td></td>
</tr>
<tr>
<td>330.0</td>
<td></td>
</tr>
<tr>
<td>332.5</td>
<td></td>
</tr>
<tr>
<td>335.0</td>
<td></td>
</tr>
</tbody>
</table>

### Performance Warranty

<table>
<thead>
<tr>
<th>Year</th>
<th>% Efficiency</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>97.5%</td>
</tr>
<tr>
<td>27</td>
<td>80.1%</td>
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</tbody>
</table>

#### Electrical Parameters at NOCT\(^3\)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Power (W)</td>
<td>231.2</td>
<td></td>
</tr>
<tr>
<td>(V_{\text{mp}})</td>
<td>34.4</td>
<td></td>
</tr>
<tr>
<td>(I_{\text{mp}})</td>
<td>6.73</td>
<td></td>
</tr>
<tr>
<td>(V_{\text{oc}})</td>
<td>42.5</td>
<td></td>
</tr>
<tr>
<td>(I_{\text{sc}})</td>
<td>7.22</td>
<td></td>
</tr>
</tbody>
</table>

#### Temperature Coefficients \(T_c\) permissible operating conditions

- \(T_c\) of Open Circuit Voltage \(\beta\): \(-0.31\%/°C\)
- \(T_c\) of Short Circuit Current \(\alpha\): \(0.052\%/°C\)
- \(T_c\) of Power \(\gamma\): \(-0.41\%/°C\)

### Mechanical Data

- **Length x Width x Height**: 1955 x 991 x 40 mm (76.96 x 39.01 x 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\(^2\) (0.13 inches) high transmission low iron tempered glass, AR coated
- **Cells**: 72 Polycrystalline, 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**: 10 years
- **Performance Warranty**: Linear power warranty for 27 years with 2.5% for 1st year degradation and 0.67% from year 2 to year 27
- **Approvals and Certificates**: IEC 61215 Ed2, IEC 61730, UL 1703, IEC 61701, IEC 62716, IEC 60068-2-68, IEC 62804, MCS, CE, CAN/CSA 61730, CEC (California), PV Cycle*, CEC (Australia)*, IS 14286

### Typical I-V Curves\(^4\)

- Average relative efficiency reduction of 5% at 200 W/m\(^2\) according to EN 60904-1.

### Contact Information

- **sales@vikramsolar.com**
- **www.vikramsolar.com**