**ELDORA GRAND SERIES**

**Higher Output of Module Power**
by reducing cell to module power loss

**Extremely Narrow Power Binning Tolerance**
of +2.5 Wp to reduce current mismatch loss in single string

**Designed for very High Area Efficiency**
ideally suited for roof-top and ground-mounted applications

**Extremely Reliable Product**
suiting all environment conditions

**Engineered to provide Excellent Low Light Response**

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**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 free
- Certified for salt mist corrosion resistance – severity VI
- Certified for ammonia resistance
- 3rd Party validated PAN file*
- 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

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*Certified for PID free

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ID 1111214196

**ELDORA VSP.72.AAA.03.04 | POLYCRYSTALLINE SOLAR PV MODULES | 72 CELLS | 315-335 WATT**
TECHNICAL DATA

ELDORA GRAND SERIES

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

Electrical Data¹

All Data refers to STC (AM 1.5, 1000 W/m², 25°C)

<table>
<thead>
<tr>
<th>Peak Power Pmax (Wp)</th>
<th>315.0 317.5 320.0 322.5 325.0 327.5 330.0 332.5 335.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Voltage Vmp (V)</td>
<td>37.5 37.6 37.7 37.7 37.8 37.9 38.0 38.1 38.1</td>
</tr>
<tr>
<td>Maximum Current Imp (A)</td>
<td>8.40 8.45 8.50 8.55 8.60 8.65 8.70 8.74 8.80</td>
</tr>
<tr>
<td>Open Circuit Voltage Voc (V)</td>
<td>45.8 45.9 46.0 46.1 46.2 46.2 46.3 46.4 46.5</td>
</tr>
<tr>
<td>Module Efficiency (η)</td>
<td>16.23 16.36 16.49 16.62 16.75 17.01 17.14 17.26</td>
</tr>
</tbody>
</table>

¹) STC: 1000 W/m² irradiance, 25°C cell temperature, AM 1.5g spectrum according to EN 60904-1.
Average relative efficiency reduction of 5% at 200 W/m² according to EN 60904-1.

Electrical Parameters at NOCT²

| Power (W) | 231.2 232.8 234.6 236.5 238.3 240.1 242.0 243.8 245.6 |
| V@Pmax (V) | 34.4 34.4 34.5 34.6 34.6 34.7 34.8 34.9 34.9 |
| I@Pmax (A) | 6.72 6.77 6.80 6.84 6.88 6.92 6.95 6.99 7.03 |
| Voc (V) | 42.5 42.5 42.6 42.6 42.7 42.7 42.7 42.8 42.8 |
| Isc (A) | 7.22 7.26 7.30 7.34 7.38 7.42 7.46 7.50 7.54 |

²) 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) | -0.31%/°C |
| Tc of Short Circuit Current (α) | 0.05%/°C |
| Tc of Power (γ) | -0.41%/°C |

Maximum System Voltage 1000 V

Temperature Range -40°C to + 85°C

Mechanical Data

| Length x Width x Height | 1956 x 992 x 35.3 mm (77.01 x 39.06 x 1.39 inches) (+/- 1 mm) |
| Weight | 20.7 kg (45.63 lbs) |
| Junction Box | IP68/IP67, 3 Bypass diodes |
| Cable & Connectors | 1200 mm (47.24 inches) length cables, MC4 Compatible/MC4 Connectors |

Application Class Class A (Safety class II)

Superstrate 3.2 mm (0.13 Inches) high transmission low iron tempered glass, AR coated

Cells 72, 5BB Polycrystalline 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, IEC 61701, IEC 62716, IEC 60068-2-68, IEC 62804, IS 14286, UL1703, CE, MCS, CEC, PV Cycle, CAN/CSA 61730, CEC (Australia)

* 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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VSL/ENG/SC/105-Rev 08

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