ELDORA ULTIMA
SILVER 1500V SERIES

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

MAXIMUM SYSTEM VOLTAGE
INCREASED TO 1500VDC (IEC & UL),
increased string length, low BOS cost

Extremely RELIABLE PRODUCT
suiting all environment conditions

Engineered to provide EXCELLENT
LOW LIGHT RESPONSE

Extremely NARROW POWER binning
tolerance to reduce current mismatch
loss in single string

60 cells
POLYCRYSTALLINE
upto 17.83% EFFICIENCY
265-290 W RANGE

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

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

ELDORA VSP.60.AAA.05 | POLYCRYSTALLINE SOLAR PV MODULES | 60 CELLS | 265-290 WATT

ELDORA ULTIMA
SILVER 1500V SERIES

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

MAXIMUM SYSTEM VOLTAGE
INCREASED TO 1500VDC (IEC & UL),
increased string length, low BOS cost

Extremely RELIABLE PRODUCT
suiting all environment conditions

Engineered to provide EXCELLENT
LOW LIGHT RESPONSE

Extremely NARROW POWER binning
tolerance to reduce current mismatch
loss in single string

60 cells
POLYCRYSTALLINE
upto 17.83% EFFICIENCY
265-290 W RANGE

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

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

ELDORA VSP.60.AAA.05 | POLYCRYSTALLINE SOLAR PV MODULES | 60 CELLS | 265-290 WATT

ELDORA ULTIMA
SILVER 1500V SERIES

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

MAXIMUM SYSTEM VOLTAGE
INCREASED TO 1500VDC (IEC & UL),
increased string length, low BOS cost

Extremely RELIABLE PRODUCT
suiting all environment conditions

Engineered to provide EXCELLENT
LOW LIGHT RESPONSE

Extremely NARROW POWER binning
tolerance to reduce current mismatch
loss in single string

60 cells
POLYCRYSTALLINE
upto 17.83% EFFICIENCY
265-290 W RANGE

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

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

ELDORA VSP.60.AAA.05 | POLYCRYSTALLINE SOLAR PV MODULES | 60 CELLS | 265-290 WATT

ELDORA ULTIMA
SILVER 1500V SERIES

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

MAXIMUM SYSTEM VOLTAGE
INCREASED TO 1500VDC (IEC & UL),
increased string length, low BOS cost

Extremely RELIABLE PRODUCT
suiting all environment conditions

Engineered to provide EXCELLENT
LOW LIGHT RESPONSE

Extremely NARROW POWER binning
tolerance to reduce current mismatch
loss in single string

60 cells
POLYCRYSTALLINE
upto 17.83% EFFICIENCY
265-290 W RANGE

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

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

ELDORA VSP.60.AAA.05 | POLYCRYSTALLINE SOLAR PV MODULES | 60 CELLS | 265-290 WATT

ELDORA ULTIMA
SILVER 1500V SERIES

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

MAXIMUM SYSTEM VOLTAGE
INCREASED TO 1500VDC (IEC & UL),
increased string length, low BOS cost

Extremely RELIABLE PRODUCT
suiting all environment conditions

Engineered to provide EXCELLENT
LOW LIGHT RESPONSE

Extremely NARROW POWER binning
tolerance to reduce current mismatch
loss in single string

60 cells
POLYCRYSTALLINE
upto 17.83% EFFICIENCY
265-290 W RANGE

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

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

ELDORA VSP.60.AAA.05 | POLYCRYSTALLINE SOLAR PV MODULES | 60 CELLS | 265-290 WATT

ELDORA ULTIMA
SILVER 1500V SERIES

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

MAXIMUM SYSTEM VOLTAGE
INCREASED TO 1500VDC (IEC & UL),
increased string length, low BOS cost

Extremely RELIABLE PRODUCT
suiting all environment conditions

Engineered to provide EXCELLENT
LOW LIGHT RESPONSE

Extremely NARROW POWER binning
tolerance to reduce current mismatch
loss in single string

60 cells
POLYCRYSTALLINE
upto 17.83% EFFICIENCY
265-290 W RANGE

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

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

ELDORA VSP.60.AAA.05 | POLYCRYSTALLINE SOLAR PV MODULES | 60 CELLS | 265-290 WATT

ELDORA ULTIMA
SILVER 1500V SERIES

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

MAXIMUM SYSTEM VOLTAGE
INCREASED TO 1500VDC (IEC & UL),
increased string length, low BOS cost

Extremely RELIABLE PRODUCT
suiting all environment conditions

Engineered to provide EXCELLENT
LOW LIGHT RESPONSE

Extremely NARROW POWER binning
tolerance to reduce current mismatch
loss in single string

60 cells
POLYCRYSTALLINE
upto 17.83% EFFICIENCY
265-290 W RANGE

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

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

ELDORA VSP.60.AAA.05 | POLYCRYSTALLINE SOLAR PV MODULES | 60 CELLS | 265-290 WATT

ELDORA ULTIMA
SILVER 1500V SERIES

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

MAXIMUM SYSTEM VOLTAGE
INCREASED TO 1500VDC (IEC & UL),
increased string length, low BOS cost

Extremely RELIABLE PRODUCT
suiting all environment conditions

Engineered to provide EXCELLENT
LOW LIGHT RESPONSE

Extremely NARROW POWER binning
tolerance to reduce current mismatch
loss in single string

60 cells
POLYCRYSTALLINE
upto 17.83% EFFICIENCY
265-290 W RANGE

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

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

ELDORA VSP.60.AAA.05 | POLYCRYSTALLINE SOLAR PV MODULES | 60 CELLS | 265-290 WATT

ELDORA ULTIMA
SILVER 1500V SERIES

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

MAXIMUM SYSTEM VOLTAGE
INCREASED TO 1500VDC (IEC & UL),
increased string length, low BOS cost

Extremely RELIABLE PRODUCT
suiting all environment conditions

Engineered to provide EXCELLENT
LOW LIGHT RESPONSE

Extremely NARROW POWER binning
tolerance to reduce current mismatch
loss in single string

60 cells
POLYCRYSTALLINE
upto 17.83% EFFICIENCY
265-290 W RANGE

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

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

ELDORA VSP.60.AAA.05 | POLYCRYSTALLINE SOLAR PV MODULES | 60 CELLS | 265-290 WATT
TECHNICAL DATA

ELDORA ULTIMA SILVER 1500V SERIES

THIS DATASHEET IS APPLICABLE FOR: ELDORA VSP.60.AAA.05 (AAA=265-290)

Electrical Data1, 2

All data refers to STC [AM 1.5, 1000 W/m², 25°C]

<table>
<thead>
<tr>
<th>Peak Power P_{max} (Wp)</th>
<th>265</th>
<th>270</th>
<th>275</th>
<th>280</th>
<th>285</th>
<th>290</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Voltage V_{max} (V)</td>
<td>30.9</td>
<td>31</td>
<td>31.2</td>
<td>31.3</td>
<td>31.5</td>
<td>31.7</td>
</tr>
<tr>
<td>Maximum Current I_{max} (A)</td>
<td>8.58</td>
<td>8.71</td>
<td>8.82</td>
<td>8.95</td>
<td>9.05</td>
<td>9.16</td>
</tr>
<tr>
<td>Open Circuit Voltage V_{oc} (V)</td>
<td>38.1</td>
<td>38.3</td>
<td>38.5</td>
<td>38.6</td>
<td>38.9</td>
<td>39.1</td>
</tr>
<tr>
<td>Short Circuit Current I_{sc} (A)</td>
<td>9.03</td>
<td>9.12</td>
<td>9.22</td>
<td>9.35</td>
<td>9.45</td>
<td>9.54</td>
</tr>
<tr>
<td>Module Efficiency ε [%]</td>
<td>16.29</td>
<td>16.60</td>
<td>16.90</td>
<td>17.21</td>
<td>17.52</td>
<td>17.83</td>
</tr>
</tbody>
</table>

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): 196.6, 200.1, 204.3, 207.9, 211.7, 215.5
- V@P_{max} (V): 28.5, 28.6, 28.8, 28.9, 29.1, 29.2
- I@P_{max} (A): 6.89, 6.99, 7.09, 7.19, 7.29, 7.37
- V_{oc} (V): 35.1, 35.3, 35.5, 35.6, 36.0, 36.2
- I_{sc} (A): 7.31, 7.38, 7.46, 7.57, 7.65, 7.72

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

Temperature Coefficients (Tc)

- Tc of Open Circuit Voltage (∂): -0.29%/°C
- Tc of Short Circuit Current (∂): 0.057%/°C
- Tc of Power (γ): -0.38%/°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 × 39.06 × 1.57 inches)
- Weight: 18.50 kg (40.79 lbs)
- Junction Box: IP68/67, 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: 60, 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

Performance Warranty

- 12 years
- Linear Power Warranty for 27 years with 2.5% for 1st year degradation and 0.67% from year 2 to year 27

Approval and Certificates

IEC 60891, 2-68, I5, IEC 61215 Ed2, IEC 61730, IEC 61701, IEC 4226, IEC 62864, UL 1703*; CE*, CEC PV Cycle*, CAN/CSA 61730, CEC (California)*

Warranty and Certifications

Product Warranty** | 12 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

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.

*Vikram Solar and Eldora are Trademarks of Vikram Solar Limited registered in India

Packaging Information

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

sales@vikramsolar.com www.vikramsolar.com

VSL/ENG/SC/118-Rev 03

©2018 Eldora Solar, LLC, 1500V Series-2018-R04