

# Certificate



Registration No.: PV 60099521

Page 1

Report No.: 21170524.008

**License Holder:**

**Vikram Solar Private Limited**

Tobacco House, 1 Old Court House Corner  
Kolkata 700001  
India

**Product:**

PV Modules

**Type:**

with 6" mono cells  
ELDORA 300M with 255-315 Wp, 72 cells  
ELDORA 250M with 215-260 Wp, 60 cells  
ELDORA 220M with 190-235 Wp, 54 cells  
ELDORA 190M with 170-210 Wp, 48 cells  
ELDORA 150M with 130-155 Wp, 36 cells

with 6" poly cells  
ELDORA 300P with 260-315 Wp, 72 cells  
ELDORA 250P with 215-260 Wp, 60 cells  
ELDORA 220P with 195-235 Wp, 54 cells  
ELDORA 190P with 175-210 Wp, 48 cells  
ELDORA 150P with 130-160 Wp, 36 cells  
ELDORA 125, ELDORA 130, ELDORA 135  
ELDORA 140, ELDORA 145, ELDORA 150  
ELDORA 190, ELDORA 195, ELDORA 200  
ELDORA 205, ELDORA 210, ELDORA 215  
ELDORA 220, ELDORA 225, ELDORA 230  
ELDORA 235, ELDORA 240, ELDORA 245  
ELDORA 250, ELDORA 255, ELDORA 260  
ELDORA 265, ELDORA 270, ELDORA 275  
ELDORA 280, ELDORA 285, ELDORA 290  
ELDORA 295, ELDORA 300, ELDORA 305

**Manufacturing plant:**

Vikram Solar Private Limited  
Special Economic Zone, Sector 2, Falta  
24 Parganas (South)  
West Bengal - 743504  
India

**Basis:**

- IEC 61215:2005**  
**EN 61215:2005**  
"Crystalline silicon terrestrial photovoltaic (PV) modules - Design qualification and type approval"
- Factory Inspection**  
To document the consistent quality of the product factory inspections are performed periodically.



www.tuv.com  
ID 2035704000

**Remarks:**

- Valid in conjunction with TÜV Rheinland certificate based on IEC EN 61730.

**Conditions:**

The product test is voluntarily according to technical regulations. Any change of the design, materials, components or processing may require the repetition of some of the qualification tests in order to retain type approval.

**The certificate is valid until 27 January 2020.**

Cologne, 28 January 2015



Dipl.-Ing. M. Adrian

# Certificate



Registration No.: PV 60099521

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Report No.: 21170524.008

**License Holder:**

**Vikram Solar Private Limited**

Tobacco House, 1 Old Court House Corner  
Kolkata 700001  
India

**Manufacturing plant:**

Vikram Solar Private Limited  
Special Economic Zone, Sector 2, Falta  
24 Parganas (South)  
West Bengal - 743504  
India

**Product:**

PV Modules

**Type:**

with 6" poly cells  
ELDORA VSP.60.AAA.03 with 228-279 Wp, 60 cells  
ELDORA VSP.54.AAA.03 with 205-250 Wp, 54 cells  
ELDORA VSP.48.AAA.03 with 182-223 Wp, 48 cells  
ELDORA VSP.36.AAA.03 with 137-168 Wp, 36 cells  
  
ELDORA VSPB.60.AAA.03 with 228-279 Wp, 60 cells  
ELDORA VSPB.54.AAA.03 with 205-250 Wp, 54 cells  
ELDORA VSPB.48.AAA.03 with 182-223 Wp, 48 cells  
ELDORA VSPB.36.AAA.03 with 137-168 Wp, 36 cells  
  
ELDORA VSPBB.60.AAA.03 with 228-279 Wp, 60 cells  
ELDORA VSPBB.54.AAA.03 with 205-250 Wp, 54 cells  
ELDORA VSPBB.48.AAA.03 with 182-223 Wp, 48 cells  
ELDORA VSPBB.36.AAA.03 with 137-168 Wp, 36 cells  
  
ELDORA VSP.60.AAA.03.01 with 228-279 Wp, 60 cells  
ELDORA VSP.54.AAA.03.01 with 205-250 Wp, 54 cells  
ELDORA VSP.48.AAA.03.01 with 182-223 Wp, 48 cells  
ELDORA VSP.36.AAA.03.01 with 137-168 Wp, 36 cells  
  
with poly cut cells  
ELDORA 100 with 90-110 Wp, 36 cells  
ELDORA 80 with 70-85 Wp, 36 cells  
ELDORA 60 with 55-65 Wp, 36 cells  
ELDORA 50 with 50-60 Wp, 36 cells  
ELDORA 40 with 37-45 Wp, 36 cells  
ELDORA 30 with 25-35 Wp, 36 cells  
ELDORA 20 with 18-22 Wp, 36 cells  
ELDORA 10 with 8-12 Wp, 36 cells

**Basis:**

- IEC 61215:2005**  
**EN 61215:2005**  
"Crystalline silicon terrestrial photovoltaic (PV) modules - Design qualification and type approval"
- Factory Inspection**  
To document the consistent quality of the product factory inspections are performed periodically.



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ID 2035704000

**Remarks:**

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Cologne, 28 January 2015



# Certificate



Registration No.: PV 60099521

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Report No.: 21170524.008

**License Holder:**

**Vikram Solar Private Limited**

Tobacco House, 1 Old Court House Corner  
Kolkata 700001  
India

**Manufacturing plant:**

Vikram Solar Private Limited  
Special Economic Zone, Sector 2, Falta  
24 Parganas (South)  
West Bengal - 743504  
India

**Product:**

PV Modules

**Type:**

with cut cells  
ELDORA 270P with 225-275 Wp, 72 poly cells  
ELDORA 260P with 225-270 Wp, 72 poly cells  
ELDORA 240P with 220-265 Wp, 72 poly cells  
ELDORA 200P with 190-235 Wp, 72 poly cells  
ELDORA 180P with 170-210 Wp, 72 poly cells  
ELDORA 130P with 120-145 Wp, 72 poly cells  
ELDORA 130P with 120-145 Wp, 36 poly cells  
ELDORA 120P with 120-130 Wp, 72 poly cells  
ELDORA 120P with 120-130 Wp, 36 poly cells  
ELDORA 100P with 100-125 Wp, 36 poly cells  
ELDORA 80P with 80-100 Wp, 36 poly cells  
ELDORA 60P with 60-75 Wp, 36 poly cells  
ELDORA 50P with 50-60 Wp, 36 poly cells  
ELDORA 40P with 40-50 Wp, 36 poly cells  
ELDORA 30P with 30-35 Wp, 36 poly cells  
ELDORA 20P with 20-25 Wp, 36 poly cells  
ELDORA 10P with 10-12 Wp, 36 poly cells  
ELDORA 100M with 100-120 Wp, 36 mono cells  
ELDORA 80M with 80-100 Wp, 36 mono cells  
ELDORA 60M with 60-75 Wp, 36 mono cells  
ELDORA 50M with 50-60 Wp, 36 mono cells  
ELDORA 40M with 40-50 Wp, 36 mono cells  
ELDORA 30M with 30-37 Wp, 36 mono cells  
ELDORA 20M with 20-25 Wp, 36 mono cells  
ELDORA 10M with 10-12 Wp, 36 mono cells

**Basis:**

- IEC 61215:2005  
EN 61215:2005**  
"Crystalline silicon terrestrial photovoltaic (PV) modules - Design qualification and type approval"
- Factory Inspection**  
To document the consistent quality of the product factory inspections are performed periodically.



www.tuv.com  
ID 2035704000

**Remarks:**

- Valid in conjunction with TÜV Rheinland certificate based on IEC EN 61730.

**Conditions:**

The product test is voluntarily according to technical regulations. Any change of the design, materials, components or processing may require the repetition of some of the qualification tests in order to retain type approval.

**The certificate is valid until 27 January 2020.**

Cologne, 28 January 2015



Dipl.-Ing. M. Adrian

# Certificate

Registration No.: PV 60099521

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Report No.: 21170524.009

**License Holder:**

**Vikram Solar Private Limited**

Tobacco House, 1 Old Court House Corner  
Kolkata 700001  
India

**Product:**

PV Modules

**Type:**

with 6" poly cells

ELDORA VSP.72.AAA.03 with 275-335 Wp, 72 cells  
ELDORA VSP.60.AAA.03 with 228-279 Wp, 60 cells  
ELDORA VSP.54.AAA.03 with 205-250 Wp, 54 cells  
ELDORA VSP.48.AAA.03 with 182-223 Wp, 48 cells  
ELDORA VSP.36.AAA.03 with 137-168 Wp, 36 cells

**Manufacturing plant:**

Vikram Solar Private Limited  
Special Economic Zone, Sector 2, Falta  
24 Parganas (South)  
West Bengal - 743504  
India

ELDORA VSPB.72.AAA.03 with 275-335 Wp, 72 cells  
ELDORA VSPB.60.AAA.03 with 228-279 Wp, 60 cells  
ELDORA VSPB.54.AAA.03 with 205-250 Wp, 54 cells  
ELDORA VSPB.48.AAA.03 with 182-223 Wp, 48 cells  
ELDORA VSPB.36.AAA.03 with 137-168 Wp, 36 cells

**Basis:**

**IEC 61215:2005**  
**EN 61215:2005**  
"Crystalline silicon terrestrial  
photovoltaic (PV) modules - Design  
qualification and type approval"

**Factory Inspection**  
To document the consistent quality of  
the product factory inspections are  
performed periodically.



www.tuv.com  
ID 2035704000

**Remarks:**

- Valid in conjunction with TÜV Rheinland certificate based on IEC EN 61730.
- Extension to new module types and additional backsheet.

**Conditions:**

The product test is voluntarily according to technical regulations. Any change of the design, materials, components or processing may require the repetition of some of the qualification tests in order to retain type approval.

**The certificate is valid until 27 January 2020.**

Cologne, 17 March 2015

Certification body



Dipl.-Ing. M. Adrian

# Certificate



Registration No.: PV 60099521

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Report No.: 21170524.010

**License Holder:**

**Vikram Solar Private Limited**

Tobacco House, 1 Old Court House Corner  
Kolkata 700001  
India

**Product:**

PV Modules

**Type:**

with 6" poly - crystalline cells  
ELDORA VSP.72.AAA.04 with 300-365 Wp, 72 cells  
ELDORA VSP.60.AAA.04 with 250-305 Wp, 60 cells  
ELDORA VSP.54.AAA.04 with 225-275 Wp, 54 cells  
ELDORA VSP.48.AAA.04 with 200-245 Wp, 48 cells  
ELDORA VSP.36.AAA.04 with 150-185 Wp, 36 cells

**Manufacturing plant:**

Vikram Solar Private Limited  
Special Economic Zone, Sector 2, Falta  
24 Parganas (South)  
West Bengal - 743504  
India

ELDORA VSPB.72.AAA.04 with 300-355 Wp, 72 cells  
ELDORA VSPB.60.AAA.04 with 250-305 Wp, 60 cells  
ELDORA VSPB.54.AAA.04 with 225-275 Wp, 54 cells  
ELDORA VSPB.48.AAA.04 with 200-245 Wp, 48 cells  
ELDORA VSPB.36.AAA.04 with 150-185 Wp, 36 cells  
(AAA represent output power in Wp)

with 6" poly - crystalline cut cells  
ELDORA 290P with 255-310 Wp, 72 cells  
ELDORA 160P with 135-165 Wp, 72 cells

**Basis:**



**IEC 61215:2005  
EN 61215:2005**

"Crystalline silicon terrestrial  
photovoltaic (PV) modules - Design  
qualification and type approval"



**Factory Inspection**

To document the consistent quality of  
the product factory inspections are  
performed periodically.



www.tuv.com  
ID 2035704000

**Remarks:**

- Valid in conjunction with TÜV Rheinland certificate based on IEC EN 61730.
- The mechanical load test of IEC EN 61215:2005 was performed with a load of **5400 Pa**.
- Extension to new module types, and to additional manufacturing plant (see Attachment List of Factories).
- 'AAA' of the PV module type designation is used as placeholder for the module output power, valid for page 1 to 5.

**Conditions:**

The product test is voluntarily according to technical regulations. Any change of the design, materials, components or processing may require the repetition of some of the qualification tests in order to retain type approval.

**The certificate is valid until 27 January 2020.**

Cologne, 10 December 2015



Dipl.-Ing. M. Adrian

## Attachment List of Factories



**PV 60099521 0005**

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- |    |   |    |  |
|----|---|----|--|
| 1. | Vikram Solar Private Limited<br>Special Economic Zone, Sector 2<br>Falta 24 Parganas (South)<br>West Bengal - 743504<br>India | 2. | Vikram Solar Private Limited<br>FAB-II Special Economic Zone, Sector 2<br>Falta 24 Parganas (South)<br>West Bengal - 743504<br>India |
|----|---|----|--|

Cologne, 10 December 2015



Dipl.-Ing. M. Adrian

# Certificate



Registration No.: PV 60099521

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Report No.: 21170524.013

**License Holder:**

**Vikram Solar Private Limited**

Tobacco House, 1 Old Court House Corner  
Kolkata 700001  
India

**Product:**

PV Modules

**Type:**

with 6" poly - crystalline cells

ELDORA VSP.72.AAA.03.04 (AAA = 285-350 in steps of 1, 72 cells)

ELDORA VSP.60.AAA.03.04 (AAA = 235-290 in steps of 1, 60 cells)

ELDORA VSP.54.AAA.03.04 (AAA = 215-265 in steps of 1, 54 cells)

ELDORA VSP.48.AAA.03.04 (AAA = 190-235 in steps of 1, 48 cells)

ELDORA VSP.36.AAA.03.04 (AAA = 145-175 in steps of 1, 36 cells)

**Manufacturing plant:**

Vikram Solar Private Limited

Special Economic Zone, Sector 2, Falta

24 Parganas (South)

West Bengal - 743504

India

ELDORA VSPB.72.AAA.03.04 (AAA = 285-350 in steps of 1, 72 cells)

ELDORA VSPB.60.AAA.03.04 (AAA = 235-290 in steps of 1, 60 cells)

ELDORA VSPB.54.AAA.03.04 (AAA = 215-265 in steps of 1, 54 cells)

ELDORA VSPB.48.AAA.03.04 (AAA = 190-235 in steps of 1, 48 cells)

ELDORA VSPB.36.AAA.03.04 (AAA = 145-175 in steps of 1, 36 cells)

ELDORA VSPBB.60.AAA.03.04 (AAA = 235-290 in steps of 1, 60 cells)

ELDORA VSPBB.54.AAA.03.04 (AAA = 215-265 in steps of 1, 54 cells)

ELDORA VSPBB.48.AAA.03.04 (AAA = 190-235 in steps of 1, 48 cells)

ELDORA VSPBB.36.AAA.03.04 (AAA = 145-175 in steps of 1, 36 cells)

AAA represents output power in Wp

**Basis:**



**IEC 61215:2005**

**EN 61215:2005**

"Crystalline silicon terrestrial photovoltaic (PV) modules - Design qualification and type approval"



**Factory Inspection**

To document the consistent quality of the product factory inspections are performed periodically.



www.tuv.com  
ID 2035704000

**Remarks:**

- Valid in conjunction with TÜV Rheinland certificate based on IEC EN 61730.
- The mechanical load test of IEC EN 61215:2005 was performed with a load of **5400 Pa**.
- Extension to new module types.

**Conditions:**

The product test is voluntarily according to technical regulations. Any change of the design, materials, components or processing may require the repetition of some of the qualification tests in order to retain type approval.

**The certificate is valid until 27 January 2020.**

Certification body



Dipl.-Ing. M. Adrian

Cologne, 30 November 2016

## Attachment List of Factories



**PV 60099522 0006**

- |  |   |
|--|---|
| 1. Vikram Solar Private Limited<br>Special Economic Zone, Sector 2<br>Falta 24 Parganas (South)<br>West Bengal - 743504<br>India | 2. Vikram Solar Private Limited<br>FAB-II Special Economic Zone, Sector 2<br>Falta 24 Parganas (South)<br>West Bengal - 743504<br>India |
|--|---|

Cologne, 30 November 2016

Certification body



Dipl.-Ing. M. Adrian