

Certificate



Registration No.: PV 60099522

Page 1

Report No.: 21170525.007

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

Manufacturing plant:

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

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

Basis:

- IEC 61730-1:2004+A1+A2
IEC 61730-2:2004+A1
EN 61730-1:2007+A1+A2
EN 61730-2:2007+A1
"Photovoltaic (PV) module safety qualification"

- 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 61215.
- The above listed PV modules fulfil the requirements of Application **Class A (Class II acc. to IEC 61140)**. They may be used in PV plants at a maximum system voltage (Voc at STC) of up to **1000 VDC**.
- The above listed PV modules fulfil the requirements of **fire rating class C**.

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



Certificate



Registration No.: PV 60099522

Page 2

Report No.: 21170525.007

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 61730-1:2004+A1+A2
IEC 61730-2:2004+A1
EN 61730-1:2007+A1+A2
EN 61730-2:2007+A1
"Photovoltaic (PV) module safety qualification"

- 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 61215.
- The above listed PV modules fulfil the requirements of Application **Class A** (Class II acc. to IEC 61140). They may be used in PV plants at a maximum system voltage (Voc at STC) of up to **1000 VDC**.
- The above listed PV modules fulfil the requirements of **fire rating class C**.

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 60099522

Page 3

Report No.: 21170525.007

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 61730-1:2004+A1+A2
IEC 61730-2:2004+A1
EN 61730-1:2007+A1+A2
EN 61730-2:2007+A1
"Photovoltaic (PV) module safety qualification"

- 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 61215.
- The above listed PV modules fulfil the requirements of Application **Class A** (Class II acc. to IEC 61140). They may be used in PV plants at a maximum system voltage (Voc at STC) of up to **1000 VDC**.
- The above listed PV modules fulfil the requirements of **fire rating class C**.

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 60099522

Page 4

Report No.: 21170525.009

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 61730-1:2004+A1+A2
IEC 61730-2:2004+A1
EN 61730-1:2007+A1+A2+A11
EN 61730-2:2007+A1
"Photovoltaic (PV) module safety qualification"

- 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 61215.
- The above listed PV modules fulfil the requirements of Application **Class A (Class II acc. to IEC 61140)**. They may be used in PV plants at a maximum system voltage (Voc at STC) of up to **1000 VDC**.
- The above listed PV modules fulfil the requirements of **fire rating class C**.
- Extension to new module types and additional backsheets.

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 60099522

Page 5

Report No.: 21170525.010

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 61730-1:2004+A1+A2
IEC 61730-2:2004+A1
EN 61730-1:2007+A1+A2+A11
EN 61730-2:2007+A1
"Photovoltaic (PV) module safety qualification"

- 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 61215.
- The above listed PV modules fulfil the requirements of Application **Class A** (Class II acc. to IEC 61140). They may be used in PV plants at a maximum system voltage (Voc at STC) of up to **1000 VDC**.
- The above listed PV modules fulfil the requirements of **fire rating class C**.
- 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 60099522 0005

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

Cologne, 10 December 2015

Certification body



Dipl.-Ing. M. Adrian

Certificate



Registration No.: PV 60099522

Page 6

Report No.: 21170525.013

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 61730-1:2004+A1+A2
IEC 61730-2:2004+A1
EN 61730-1:2007+A1+A2
EN 61730-2:2007+A1
"Photovoltaic (PV) module safety qualification"

- 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 61215.
- The above listed PV modules fulfil the requirements of Application **Class A (Class II acc. to IEC 61140)**. They may be used in PV plants at a maximum system voltage (Voc at STC) of up to **1000 VDC**.
- The above listed PV modules fulfil the requirements of **fire rating class C**.
- The mechanical load test of IEC EN 61215:2005 was performed with a load of **5400 Pa**.
- Extension to new module types.
- For above listed PV modules also EN 61730:2007+A11 is applicable when its junction box is qualified acc.to EN50548+A1+A2.

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, 30 November 2016

Certification body



Dipl.-Ing. M. Adrian

Attachment List of Factories

PV 60099522 0006



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

Cologne, 30 November 2016

Certification body



Dipl.-Ing. M. Adrian