

# Zertifikat

# Certificate



Zertifikat Nr. *Certificate No.*  
PV 60125638

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0001

Ihr Zeichen *Client Reference*

Unser Zeichen *Our Reference*  
0001--21170525 017

Ausstellungsdatum  
13.12.2017

*Date of Issue*  
(day/mo/yr)

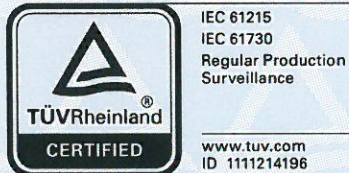
**Genehmigungsinhaber *License Holder***

Vikram Solar Limited  
The Chambers, 8th Floor  
1865, Rajdanga Main Road  
Kolkata 700107  
India

**Fertigungsstätte *Manufacturing Plant***

Vikram Solar Ltd.  
Special Economic Zone  
Sector II Falta, 24 Parganas (South)  
West Bengal 743504  
India

**Prüfzeichen *Test Mark***



**Geprüft nach *Tested acc. to***

IEC 61215:2005  
EN 61215:2005  
IEC 61730-1:2004+A1+A2  
IEC 61730-2:2004+A1  
EN 61730-1:2007+A1+A2+A11  
EN 61730-2:2007+A1

**Zertifiziertes Produkt (Geräteidentifikation)  
*Certified Product (Product Identification)***

**Lizenzentgelte - Einheit  
*License Fee - Unit***

**PV-Module**

Type: with 6" poly cells:

ELDORA VSP.72.AAA.05 (AAA=285-350) with 72 cells  
ELDORA VSP.60.AAA.05 (AAA=240-293) with 60 cells  
ELDORA VSP.54.AAA.05 (AAA=215-265) with 54 cells  
ELDORA VSP.48.AAA.05 (AAA=190-235) with 48 cells  
ELDORA VSP.36.AAA.05 (AAA=140-175) with 36 cells  
ELDORA VSPB.72.AAA.05 (AAA=285-350) with 72 cells  
ELDORA VSPB.60.AAA.05 (AAA=240-293) with 60 cells  
ELDORA VSPB.54.AAA.05 (AAA=215-265) with 54 cells  
ELDORA VSPB.48.AAA.05 (AAA=190-235) with 48 cells  
ELDORA VSPB.36.AAA.05 (AAA=140-175) with 36 cells  
ELDORA VSP.72.AAA.03.04 (AAA=285-350) with 72 cells  
ELDORA VSP.60.AAA.03.04 (AAA=235-290) with 60 cells  
ELDORA VSP.54.AAA.03.04 (AAA=215-265) with 54 cells  
ELDORA VSP.48.AAA.03.04 (AAA=190-235) with 48 cells  
ELDORA VSP.36.AAA.03.04 (AAA=145-175) with 36 cells  
ELDORA VSPB.72.AAA.03.04 (AAA=285-350) with 72 cells  
ELDORA VSPB.60.AAA.03.04 (AAA=235-290) with 60 cells  
ELDORA VSPB.54.AAA.03.04 (AAA=215-265) with 54 cells  
ELDORA VSPB.48.AAA.03.04 (AAA=190-235) with 48 cells  
ELDORA VSPB.36.AAA.03.04 (AAA=145-175) with 36 cells

AAA represent output power in Wp  
refer to remarks on page 7

continued on page 2

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.  
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.  
This certificate is based on our Testing and Certification Regulation. The product fulfills above mentioned requirements, the production is subject to surveillance.

**TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg**

Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com  
Fax: +49 221 806-3935 http://www.tuv.com/safety

Zertifizierungsstelle



Dipl.-Ing. M. Adrian

# Zertifikat

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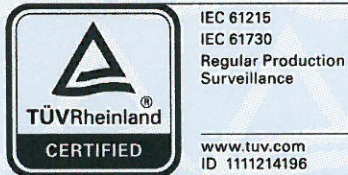
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0002

Ihr Zeichen <i>Client Reference</i>	Unser Zeichen <i>Our Reference</i>	Ausstellungsdatum <i>Date of Issue</i>	<i>(day/mo/yr)</i>
	0001--21170525 017	13.12.2017	

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## Geprüft nach *Tested acc. to*

IEC 61215:2005  
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EN 61730-2:2007+A1

## Zertifiziertes Produkt (Geräteidentifikation) *Certified Product (Product Identification)*

## Lizenzentgelte - Einheit *License Fee - Unit*

### PV-Module

Type: with 6" poly cells:

ELDORA VSPBB.60.AAA.03.04 (AAA=235-290) with 60 cells  
ELDORA VSPBB.54.AAA.03.04 (AAA=215-265) with 54 cells  
ELDORA VSPBB.48.AAA.03.04 (AAA=190-235) with 48 cells  
ELDORA VSPBB.36.AAA.03.04 (AAA=145-175) with 36 cells  
ELDORA VSP.72.AAA.03 (AAA=275-335) with 72 cells  
ELDORA VSP.60.AAA.03 (AAA=228-279) with 60 cells  
ELDORA VSP.54.AAA.03 (AAA=205-250) with 54 cells  
ELDORA VSP.48.AAA.03 (AAA=182-223) with 48 cells  
ELDORA VSP.36.AAA.03 (AAA=137-168) with 36 cells  
ELDORA VSPB.72.AAA.03 (AAA=275-335) with 72 cells  
ELDORA VSPB.60.AAA.03 (AAA=228-279) with 60 cells  
ELDORA VSPB.54.AAA.03 (AAA=205-250) with 54 cells  
ELDORA VSPB.48.AAA.03 (AAA=182-223) with 48 cells  
ELDORA VSPB.36.AAA.03 (AAA=137-168) with 36 cells  
ELDORA VSPBB.60.AAA.03 (AAA=228-279) with 60 cells  
ELDORA VSPBB.54.AAA.03 (AAA=205-250) with 54 cells  
ELDORA VSPBB.48.AAA.03 (AAA=182-223) with 48 cells  
ELDORA VSPBB.36.AAA.03 (AAA=137-168) with 36 cells  
AAA represent output power in Wp

refer to remarks on page 7

continued on page 3

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## Geprüft nach *Tested acc. to*

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IEC 61730-1:2004+A1+A2  
IEC 61730-2:2004+A1  
EN 61730-1:2007+A1+A2+A11  
EN 61730-2:2007+A1

## Zertifiziertes Produkt (Geräteidentifikation) *Certified Product (Product Identification)*

## Lizenzentgelte - Einheit *License Fee - Unit*

### PV-Module

Type: with 6" poly cells:

ELDORA VSP.60.AAA.03.01 (AAA=228-279) with 60 cells  
ELDORA VSP.54.AAA.03.01 (AAA=205-250) with 54 cells  
ELDORA VSP.48.AAA.03.01 (AAA=182-223) with 48 cells  
ELDORA VSP.36.AAA.03.01 (AAA=137-168) with 36 cells  
ELDORA VSP.72.AAA.04 (AAA=300-365) with 72 cells  
ELDORA VSP.60.AAA.04 (AAA=250-305) with 60 cells  
ELDORA VSP.54.AAA.04 (AAA=225-275) with 54 cells  
ELDORA VSP.48.AAA.04 (AAA=200-245) with 48 cells  
ELDORA VSP.36.AAA.04 (AAA=150-185) with 36 cells  
ELDORA VSPB.72.AAA.04 (AAA=300-365) with 72 cells  
ELDORA VSPB.60.AAA.04 (AAA=250-305) with 60 cells  
ELDORA VSPB.54.AAA.04 (AAA=225-275) with 54 cells  
ELDORA VSPB.48.AAA.04 (AAA=200-245) with 48 cells  
ELDORA VSPB.36.AAA.04 (AAA=150-185) with 36 cells  
AAA represent output power in Wp

refer to remarks on page 7

continued on page 4

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.  
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Fax: +49 221 806-3935 http://www.tuv.com/safety

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# Certificate



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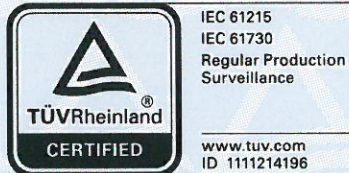
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0004

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Vikram Solar Limited  
The Chambers, 8th Floor  
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Kolkata 700107  
India

**Fertigungsstätte *Manufacturing Plant***  
Vikram Solar Ltd.  
Special Economic Zone  
Sector II Falta, 24 Parganas (South)  
West Bengal 743504  
India

## Prüfzeichen *Test Mark*



## Geprüft nach *Tested acc. to*

IEC 61215:2005  
EN 61215:2005  
IEC 61730-1:2004+A1+A2  
IEC 61730-2:2004+A1  
EN 61730-1:2007+A1+A2+A11  
EN 61730-2:2007+A1

## Zertifiziertes Produkt (Geräteidentifikation) *Certified Product (Product Identification)*

## Lizenzentgelte - Einheit *License Fee - Unit*

### PV-Module

Type: with 6" poly cut cells:

ELDORA 300P with 265-320 Wp, 72 cut cells  
ELDORA 250P with 247-302 Wp, 72 cut cells  
ELDORA 290P with 255-310 Wp, 72 cut cells  
ELDORA 270P with 225-275 Wp, 72 cut cells  
ELDORA 260P with 225-270 Wp, 72 cut cells  
ELDORA 240P with 220-265 Wp, 72 cut cells  
ELDORA 200P with 190-235 Wp, 72 cut cells  
ELDORA 180P with 170-210 Wp, 72 cut cells  
ELDORA 160P with 135-165 Wp, 72 cut cells  
ELDORA 130P with 120-145 Wp, 72 cut cells  
ELDORA 130P with 120-145 Wp, 36 cut cells  
ELDORA 120P with 120-130 Wp, 72 cut cells  
ELDORA 120P with 120-130 Wp, 36 cut cells  
ELDORA 100P with 100-125 Wp, 36 cut cells  
ELDORA 80P with 80-100 Wp, 36 cut cells  
ELDORA 60P with 60-75 Wp, 36 cut cells  
ELDORA 50P with 50-60 Wp, 36 cut cells  
ELDORA 40P with 40-50 Wp, 36 cut cells  
ELDORA 30P with 30-35 Wp, 36 cut cells  
ELDORA 20P with 20-25 Wp, 36 cut cells

refer to remarks on page 7

continued on page 5

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**TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg**

Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com  
Fax: +49 221 806-3935 <http://www.tuv.com/safety>

Zertifizierungsstelle



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0005

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0001--21170525 017

Ausstellungsdatum  
13.12.2017

*Date of Issue*  
(day/mo/yr)

**Genehmigungsinhaber *License Holder***

Vikram Solar Limited  
The Chambers, 8th Floor  
1865, Rajdanga Main Road  
Kolkata 700107  
India

**Fertigungsstätte *Manufacturing Plant***

Vikram Solar Ltd.  
Special Economic Zone  
Sector II Falta, 24 Parganas (South)  
West Bengal 743504  
India

**Prüfzeichen *Test Mark***



**Geprüft nach *Tested acc. to***

IEC 61215:2005  
EN 61215:2005  
IEC 61730-1:2004+A1+A2  
IEC 61730-2:2004+A1  
EN 61730-1:2007+A1+A2+A11  
EN 61730-2:2007+A1

**Zertifiziertes Produkt (Geräteidentifikation)  
*Certified Product (Product Identification)***

**Lizenzentgelte - Einheit  
*License Fee - Unit***

PV-Module

Type: with 6" poly cut cells:

ELDORA 10P with 10-12 Wp, 36 cut cells  
ELDORA 05P with 05-07 Wp, 18 cut cells  
ELDORA 100 with 90-110 Wp, 36 cut cells  
ELDORA 80 with 70-85 Wp, 36 cut cells  
ELDORA 60 with 55-65 Wp, 36 cut cells  
ELDORA 50 with 50-60 Wp, 36 cut cells  
ELDORA 40 with 37-45 Wp, 36 cut cells  
ELDORA 30 with 25-35 Wp, 36 cut cells  
ELDORA 20 with 18-22 Wp, 36 cut cells  
ELDORA 10 with 08-12 Wp, 36 cut cells

with 6" mono cells:

SOMERA VSM.72.AAA.05 (AAA=310-380) with 72 cells  
SOMERA VSM.60.AAA.05 (AAA=260-315) with 60 cells  
SOMERA VSM.54.AAA.05 (AAA=235-285) with 54 cells  
SOMERA VSM.48.AAA.05 (AAA=210-255) with 48 cells  
SOMERA VSM.36.AAA.05 (AAA=155-190) with 36 cells  
AAA represent output power in Wp

refer to remarks on page 7

continued on page 6

*Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.  
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Zertifizierungsstelle



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# Zertifikat

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PV 60125638

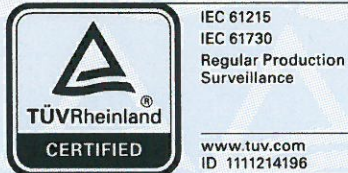
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0006

<i>Ihr Zeichen Client Reference</i>	<i>Unser Zeichen Our Reference</i>	<i>Ausstellungsdatum Date of Issue</i>	<i>Date of Issue</i>
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**Genehmigungsinhaber License Holder**  
Vikram Solar Limited  
The Chambers, 8th Floor  
1865, Rajdanga Main Road  
Kolkata 700107  
India

**Fertigungsstätte Manufacturing Plant**  
Vikram Solar Ltd.  
Special Economic Zone  
Sector II Falta, 24 Parganas (South)  
West Bengal 743504  
India

## Prüfzeichen *Test Mark*



IEC 61215  
IEC 61730  
Regular Production  
Surveillance

www.tuv.com  
ID 1111214196

## Geprüft nach *Tested acc. to*

IEC 61215:2005  
EN 61215:2005  
IEC 61730-1:2004+A1+A2  
IEC 61730-2:2004+A1  
EN 61730-1:2007+A1+A2+A11  
EN 61730-2:2007+A1

## Zertifiziertes Produkt (Geräteidentifikation) *Certified Product (Product Identification)*

## Lizenzentgelte - Einheit *License Fee - Unit*

### PV-Module

Type: with 6" mono cells:

SOMERA VSMB.72.AAA.05 (AAA=310-380) with 72 cells  
SOMERA VSMB.60.AAA.05 (AAA=260-315) with 60 cells  
SOMERA VSMB.54.AAA.05 (AAA=235-285) with 54 cells  
SOMERA VSMB.48.AAA.05 (AAA=210-255) with 48 cells  
SOMERA VSMB.36.AAA.05 (AAA=155-190) with 36 cells  
SOMERA VSM.72.AAA.03.04 (AAA=310-380) with 72 cells  
SOMERA VSM.60.AAA.03.04 (AAA=260-315) with 60 cells  
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AAA represent output power in Wp

refer to remarks on page 7

continued on page 7

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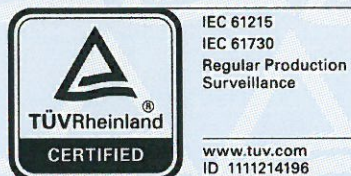
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**Zertifiziertes Produkt (Geräteidentifikation)  
*Certified Product (Product Identification)***

**Lizenzentgelte - Einheit  
*License Fee - Unit***

PV-Module

Type: with 6" mono cut cells:

ELDORA 100M with 100-120 Wp, 36 cut cells  
ELDORA 80M with 90-100 Wp, 36 cut cells  
ELDORA 60M with 60-75 Wp, 36 cut cells  
ELDORA 50M with 50-60 Wp, 36 cut cells  
ELDORA 40M with 40-50 Wp, 36 cut cells  
ELDORA 30M with 30-37 Wp, 36 cut cells  
ELDORA 20M with 20-25 Wp, 36 cut cells  
ELDORA 10M with 10-12 Wp, 36 cut cells

**Remarks:**

The above listed PV modules fulfil the requirements of Application Class A (Safety Class II). They may be used in PV plants at a maximum system voltage (Voc at STC) of up to 1000 VDC, or 1500 VDC for module type ELDORA and SOMERA with suffix '.05' with the type designation.

The above listed PV modules fulfil the requirements of fire rating class C.

The mechanical load tst of EN IEC 61215:2005 was performed with a load of 5400 Pa.

continued on page 8

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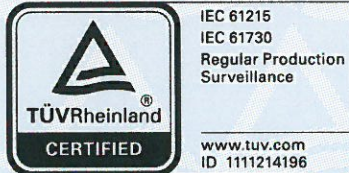
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EN 61730-2:2007+A1

**Zertifiziertes Produkt (Geräteidentifikation)  
*Certified Product (Product Identification)***

**Lizenzentgelte - Einheit  
*License Fee - Unit***

PV-Module

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 replaces certificate PV 60124304, page 1 to page 8.  
The certificate is valid until 27 January 2020.

ANLAGE (Appendix): List of Factories

*Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde. Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht. This certificate is based on our Testing and Certification Regulation. The product fulfills above mentioned requirements, the production is subject to surveillance.*

**TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg**  
Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com  
Fax: +49 221 806-3935 <http://www.tuv.com/safety>

Zertifizierungsstelle



*Adrian*  
Dipl.-Ing. M. Adrian



**Anlage Fertigungsstättenliste  
/ Attachment List of Factories**

PV 60125638 0008

1. Vikram Solar Ltd.  
Special Economic Zone  
Sector II Falta, 24 Parganas (South)  
West Bengal 743504  
India

2. Vikram Solar Ltd.  
FAB-II Special Economic Zone  
Falta 24 Parganas (South)  
West Bengal 743504  
India




  
TÜVRheinland<sup>®</sup>

Zertifizierungsstelle  
/ Certification Body



Datum / Date 13.12.2017

  
Dipl.-Ing. M. Adrian

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg

# Zertifikat

# Certificate



Zertifikat Nr. *Certificate No.*  
PV 60125638

Blatt *Blatt*  
0009

Ihr Zeichen *Client Reference*

Unser Zeichen *Our Reference*  
0001--21170525 019

Ausstellungsdatum  
04.04.2018

*Date of Issue*  
(day/mo/yr)

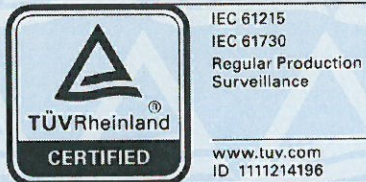
**Genehmigungsinhaber *License Holder***

Vikram Solar Limited  
The Chambers, 8th Floor  
1865, Rajdanga Main Road  
Kolkata 700107  
India

**Fertigungsstätte *Manufacturing Plant***

Vikram Solar Ltd.  
Special Economic Zone  
Sector II Falta, 24 Parganas (South)  
West Bengal 743504  
India

**Prüfzeichen *Test Mark***



**Geprüft nach *Tested acc. to***

IEC 61215:2005  
EN 61215:2005  
IEC 61730-1:2004+A1+A2  
IEC 61730-2:2004+A1  
EN 61730-1:2007+A1+A2+A11  
EN 61730-2:2007+A1

**Zertifiziertes Produkt (Geräteidentifikation)  
*Certified Product (Product Identification)***

**Lizenzentgelte - Einheit  
*License Fee - Unit***

PV Module

Type:

with 6" poly cells:  
ELDORA VSPS.72.AAA.03.04 (AAA=285-350) with 72 cells  
ELDORA VSPSB.72.AAA.03.04 (AAA=285-350) with 72 cells  
ELDORA VSPS.60.AAA.03.04 (AAA=240-293) with 60 cells  
ELDORA VSPSB.60.AAA.03.04 (AAA=240-293) with 60 cells  
ELDORA VSPSBB.60.AAA.03.04 (AAA=240-293) with 60 cells  
with 6" mono cells:  
SOMERA VSMS.72.AAA.03.04 (AAA=310-380) with 72 cells  
SOMERA VSMSB.72.AAA.03.04 (AAA=310-380) with 72 cells  
SOMERA VSMS.60.AAA.03.04 (AAA=260-315) with 60 cells  
SOMERA VSMSB.60.AAA.03.04 (AAA=260-315) with 60 cells  
SOMERA VSMSBB.60.AAA.03.04 (AAA=260-315) with 60 cells  
AAA represent output power in Wp

Remarks:

- Extension to new module types using smart junction box
  - Further remarks refer to page 7
  - Maximum system voltage (Voc at STC) of up to 1000 VDC
- Conditions: refer to page 8

The certificate is valid until 27 January 2020.

ANLAGE (Appendix): List of Factories

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