

# Zertifikat *Certificate*

**Zertifikatsnummer Certificate No.:**

PV 50605512 0001

**Berichtsnummer Report No.:**

CN23QCVC 004

**Genehmigungsinhaber License Holder:**

DualSun SAS  
2 rue Marc Donadille  
13013 Marseille  
France

**Fertigungsstätte Manufacturing Site:**

2 Fertigungsstätten auf Folgeseiten  
*Listing of 2 factories on following pages*

**Prüfzeichen Test Mark:**


IEC 62716  
Ammonia  
Resistance  
Regular Production  
Surveillance

www.tuv.com  
ID 1111276246

**Geprüft nach Tested according to:**

IEC 62716:2013  
EN 62716:2013

**Geräteidentifikation**
*Product Identification*
**Produkt:** PV Module

*Product:*
**Modell:** Modelle sind auf nächste(r) Seite(n) gelistet


*Type:* *Type designation(s) are listed on the next page(s)*
**Technische Daten:** Class II acc. to IEC 61140

*Technical Data:* For other ratings, refer to the test report.

**Gültig bis:** 2028-04-18

*Date of expiry:*
**Gültig ab:** 2023-10-24

*Valid from:*
**Zertifizierungsstelle:**
*Certification body:*
**Ausstellungsdatum:** 2023-10-24

*Date of issue:*
  
 Dipl.-Ing. (FH) Fan He


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**
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[www.tuv.com](http://www.tuv.com)

**TÜVRheinland®**  
 Precisely Right.

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**Produkt** *Product:* PV Module

**Modell** *Type:*

**Bezeichnung** *Designation:*

Max. system voltage: up to 1500 VDC (Voc at STC):

With 1/2 cut mono bifacial c-Si cells (Under STC):

DSxxx-156M10TB-01 (xxx=590-625, in steps of 5, 156 cells)

DSxxx-156M10TB-02 (xxx=590-625, in steps of 5, 156 cells)

DSxxx-156M10TB-03 (xxx=590-625, in steps of 5, 156 cells)

DSxxx-156M10TB-04 (xxx=590-625, in steps of 5, 156 cells)

DSxxx-156M10TB-05 (xxx=590-625, in steps of 5, 156 cells)

DSxxx-144M10TB-01 (xxx=535-575, in steps of 5, 144 cells)

DSxxx-144M10TB-02 (xxx=535-575, in steps of 5, 144 cells)

DSxxx-144M10TB-03 (xxx=535-575, in steps of 5, 144 cells)

DSxxx-144M10TB-04 (xxx=535-575, in steps of 5, 144 cells)

DSxxx-144M10TB-05 (xxx=535-575, in steps of 5, 144 cells)

DSxxx-132M10TB-01 (xxx=500-525, in steps of 5, 132 cells)

DSxxx-132M10TB-02 (xxx=500-525, in steps of 5, 132 cells)

DSxxx-132M10TB-03 (xxx=500-525, in steps of 5, 132 cells)

DSxxx-132M10TB-04 (xxx=500-525, in steps of 5, 132 cells)

DSxxx-132M10TB-05 (xxx=500-525, in steps of 5, 132 cells)

DSxxx-120M10TB-01 (xxx=450-480, in steps of 5, 120 cells)

DSxxx-120M10TB-02 (xxx=450-480, in steps of 5, 120 cells)

DSxxx-120M10TB-03 (xxx=450-480, in steps of 5, 120 cells)

DSxxx-120M10TB-04 (xxx=450-480, in steps of 5, 120 cells)

DSxxx-120M10TB-05 (xxx=450-480, in steps of 5, 120 cells)

DSxxx-108M10TB-01 (xxx=405-430, in steps of 5, 108 cells)

DSxxx-108M10TB-02 (xxx=405-430, in steps of 5, 108 cells)

DSxxx-108M10TB-03 (xxx=405-430, in steps of 5, 108 cells)

DSxxx-108M10TB-04 (xxx=405-430, in steps of 5, 108 cells)

DSxxx-108M10TB-05 (xxx=405-430, in steps of 5, 108 cells)

With 1/2 cut mono bifacial c-Si cells (Under BNPI):

DSxxx-156M10TB-01 (xxx=649,655,660,666,671,677,682,688, 156 cells)

DSxxx-156M10TB-02 (xxx=649,655,660,666,671,677,682,688, 156 cells)

DSxxx-156M10TB-03 (xxx=649,655,660,666,671,677,682,688, 156 cells)

DSxxx-156M10TB-04 (xxx=649,655,660,666,671,677,682,688, 156 cells)

DSxxx-156M10TB-05 (xxx=649,655,660,666,671,677,682,688, 156 cells)

DSxxx-144M10TB-01 (xxx=589,594,600,605,611,616,622,627,633, 144 cells)

DSxxx-144M10TB-02 (xxx=589,594,600,605,611,616,622,627,633, 144 cells)

DSxxx-144M10TB-03 (xxx=589,594,600,605,611,616,622,627,633, 144 cells)

DSxxx-144M10TB-04 (xxx=589,594,600,605,611,616,622,627,633, 144 cells)

DSxxx-144M10TB-05 (xxx=589,594,600,605,611,616,622,627,633, 144 cells)

DSxxx-132M10TB-01 (xxx=550,556,561,567,572,578, 132 cells)

DSxxx-132M10TB-02 (xxx=550,556,561,567,572,578, 132 cells)

DSxxx-132M10TB-03 (xxx=550,556,561,567,572,578, 132 cells)

DSxxx-132M10TB-04 (xxx=550,556,561,567,572,578, 132 cells)

DSxxx-132M10TB-05 (xxx=550,556,561,567,572,578, 132 cells)

DSxxx-120M10TB-01 (xxx=495,501,506,512,517,523,528, 120 cells)

DSxxx-120M10TB-02 (xxx=495,501,506,512,517,523,528, 120 cells)

DSxxx-120M10TB-03 (xxx=495,501,506,512,517,523,528, 120 cells)

DSxxx-120M10TB-04 (xxx=495,501,506,512,517,523,528, 120 cells)

DSxxx-120M10TB-05 (xxx=495,501,506,512,517,523,528, 120 cells)

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CN23QCVC 004

**Produkt** *Product:* PV Module**Modell** *Type:***Bezeichnung** *Designation:*

DSxxx-108M10TB-01 (xxx=446,451,457,462,468,473, 108 cells)  
DSxxx-108M10TB-02 (xxx=446,451,457,462,468,473, 108 cells)  
DSxxx-108M10TB-03 (xxx=446,451,457,462,468,473, 108 cells)  
DSxxx-108M10TB-04 (xxx=446,451,457,462,468,473, 108 cells)  
DSxxx-108M10TB-05 (xxx=446,451,457,462,468,473, 108 cells)

xxx represents output power in Wp

**Remarks:**

- Valid in conjunction with TÜV Rheinland certificate PV 50583967 0001-0005 and only for the material combination as listed in the above mentioned test report.

**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.



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**Produkt** *Product:*  
PV Module

**Fertigungsstätten** *Factories:*

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- 1 040-0002142067
  
- 2 040-0002509811



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