

# Zertifikat *Certificate*

**Zertifikatsnummer Certificate No.:**

PV 50608487 0001

**Berichtsnummer Report No.:**

CN23T81E 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 61701  
Salt Mist  
Resistance  
Regular Production  
Surveillance

www.tuv.com  
ID 1111277222

**Geprüft nach Tested according to:**

IEC 61701:2020  
EN IEC 61701:2020

**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:** 2023-11-15

*Valid from:*
**Zertifizierungsstelle:**
*Certification body:*
**Ausstellungsdatum:** 2023-11-15

*Date of issue:*
  
 Dipl.-Ing. (FH) Tim Kirschner


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**
<http://www.tuv.com/safety> E-mail: [markcheck@tuv.com](mailto:markcheck@tuv.com)

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

**TÜVRheinland®**  
 Precisely Right.

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CN23T81E 004

**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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PV 50608487 0001

**Berichtsnummer** *Report No.:*

CN23T81E 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 50599295 0001-0005 and only for the material combination as listed in the above mentioned test report.
- Test performed with Test Method 6.

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.

