



Test Certificate No. 7113218749

# 1. Below Details of order:

The test was order by: **DUALSUN SAS**

Address: **2 rue Marc Donadille 13013 Marseille FRANCE**

Date of order: **07.07.2021**

The sample was taken by a representative of the customer

# 2. Test of:

Photovoltaic module

Model : **DSTNxxxG1-360SBB5**

Manufacturer : **DualSun**

Country of manufacture : **FRANCE**

Module type : **Mono-crystalline**

Num. of cells in module : **360**

Overall dimensions : **1646 mm X 1140 mm X 35 mm**

# 3. Description of sample:

Date of Sampling : **06.06.2021**

Sampling By : **Customer**

Number of Sampling : **1**

# 4. Nature of Test:

Compliance of the model with the requirements of the International Standards:

**IEC 61730** - Photovoltaic (PV) module safety qualification

**Part 1: clauses 3,4,5,6,7,8,9,10,11,12**

**Part 2: clauses 3,6,9,10,11**

**SI 61215** - Crystalline silicon terrestrial photovoltaic (PV) modules :

clause 10.17 (Hail test) Design qualification and type approval.

# 5. Conclusion:

**The module complies with the requirements of the clauses to which they were tested.**

**Notes:** This example is representative for sample modules: DSTNxxxG1-360SBB5

(XXX = 370-400), IEC1500V.

Test report Lab.: **Kiwa Cermet Italia S.p.A** Test Report No.: **L0003438/A rev.00 (PKC0003438/A)**

Test report Lab.: **TUV NORD** Test Report No.: **492010913.020**

**This document alone is not  
used to release goods from  
customs.**

**This report refers only to the  
sample tested and does not refer to  
other samples of the same product.**

**This document contains 6  
pages, and may be used  
only in full.**

Matthew Skif

Laboratory Technician

מחלקת מכונות  
מכונות חשמליות  
מכונות חשמליות  
מכונות חשמליות

06/09/2021

Test Completion Date: 06.09.2021

6.3.18 , א' 32.7.707

42 Chaim Levanon St. Tel-Aviv 69977 Israel www.sii.org.il

Tel: 972-3-6465250 Fax: 972-3-6427654 Hydraulics Tel: 972-2-6465150/176 Fax: 972-3-6465007

**Tests Results:****Standard IEC 617301 Part 1**

<b>No.</b>	<b>Subject</b>	<b>Results and details of nonconformance</b>	<b>Verdict</b>
3	Application classes		P
4	Construction requirements		P
5	Polymeric material		P
6	Internal wiring and current – carrying parts		P
7	Connections		P
8	Bonding and grounding		P
9	Creepage and clearance distances		P
10	Field wiring compartments with covers		P
11	Marking		P
12	Requirements for supplied documents		P

**Test Completion Date: 06.09.2021**

90777.32 מ"מ דור"א, 18.3.6



**Standard IEC 617301 Part 2**

No.	Subject and details of nonconformance		Results	Verdict
6	Sampling			P
9	Pass criteria			P
10				P
	Test procedures	+ Tested in practice	MST 01	P
			MST 11	P
			MST 12	P
		Double insulation	MST 13	P
			MST 14	P
			MST 15	P
		Tested in practice >100 MΩ, 8 kV DC	MST 16	P
			MST 17	P
			MST 21	P
			MST 23	P
			MST 26	P
			MST 32	P
11				P
	Component tests		MST 15	P
			MST 33	P
			MST 44	P

**Standard IEC 61215**

4.1	Hail test	This paragraph is tested in accordance with the method defined in UL Standard 1703 .	P
-----	-----------	--	---

Test Completion Date: 06.09.2021

מסמט 32.7.707 מהדורה א', 6.3.18



Test Certificate No. 7113218749

Appendix 1

Photo Documentation



Test Completion Date: 06.09.2021

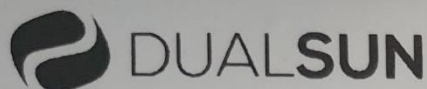
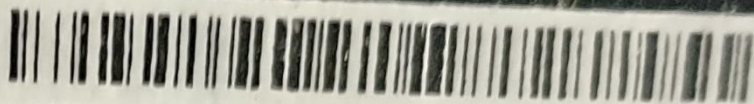
מסמט 32.7.707 מהדורה א', 6.3.18





Test Certificate No. 7113218749

BS5HMPM20907000819



DSTN375G1-360SBB5

## Electrical Data

Rated power STC (Pmax)	375 W
Range of rated power ( $\Delta P$ )	+/- 3%
Rated voltage STC (Vmpp)	40,4 V
Open-circuit voltage (Voc)	48,9 V
Rated current STC (Impp)	9,28 A
Short-circuit current (Isc)	9,89 A
Max. syst. voltage IEC (Vmax)	1500 V
Bypass diode (I diode)	20 A
Application class	A
Fire class	Class II

## Thermal Data

Gross area of the collector	1,876 m <sup>2</sup>
Maximal operating pressure	1,5 bar
Collector Dimensions	1646 x 1140 x 35 mm
Stagnation temperature (at 1000 W/m <sup>2</sup> , 30°C)	70 °C
Volume of heat transfer fluid	5,0L
Heat transfer fluid	Glycol based water Chlorinated water* *drainback system required
Weight of empty collector	26,3 kg
Production year	2020



## WARNING ELECTRICAL HAZARD

This module produces electricity when exposed to light.  
Follow all applicable electrical safety precautions.

## ATTENTION DANGER ELECTRIQUE

Ce module produit de l'électricité en l'exposant à la lumière.  
Suivez toutes les précautions de sécurité électrique applicable.

The electrical characteristics are within  $\pm 3$  percent of the  
indicated values under Standard Test  
Conditions (STC : Irradiance=1000W, AM=1.5, Temp =25°C)

Tested to IEC 61215-2: 2016  
and IEC 61730-1:2016

## DualSun SAS

2 rue Marc Donadille, CS 80001,  
13453 Marseille Cedex 13, FRANCE  
[www.dualsun.com](http://www.dualsun.com)



201102380

190204003 - Absorber DualSun Spring 60C 920x1456mm



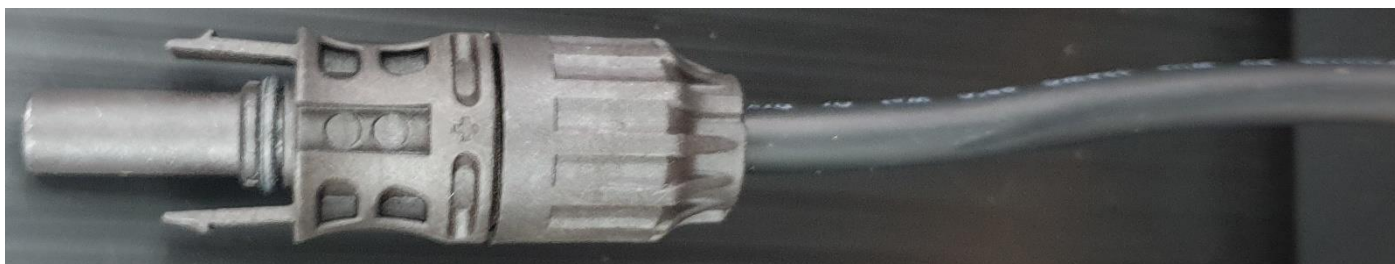
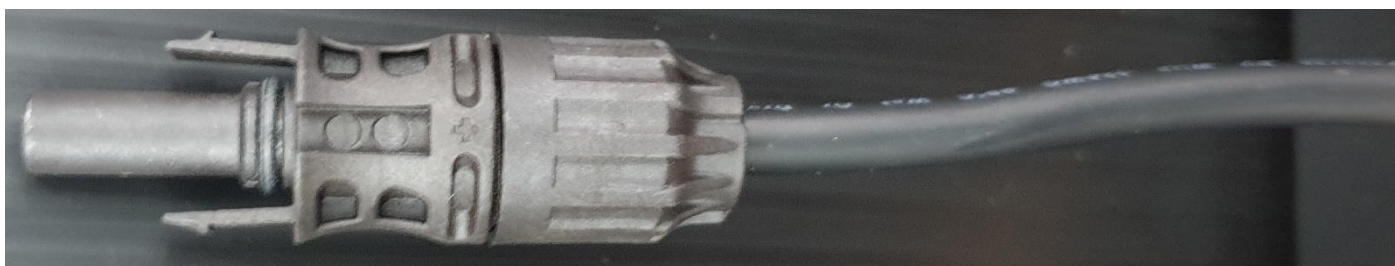
10012010161118

Test Completion Date: 06.09.2021

6.3.18 מ'הדורה 32.7.707



Test Certificate No. 7113218749



Test Completion Date: 06.09.2021

מסמט 32.7.707 מהדורה א' 6.3.18

42 Chaim Levanon St. Tel-Aviv 69977 Israel [www.sii.org.il](http://www.sii.org.il)  
Tel: 972-3-6465250 Fax: 972-3-6427654 Hydraulics Tel: 972-2-6465150/176 Fax: 972-3-6465007