

GLOBAL SATELLITE ENGINEERING, LLC

Report No.: XD4482428740103129AR

TEST REPORT

Prepared For:	GLOBAL SATELLITE ENGINEERING, LLC 2429 SW 44TH TERRACE FORT LAUDERDALE, FL 33317.USA
Product Name:	GSatSolar
Trade:	GSatSolar
Main Test Model:	GSatSolar
Additional Model:	none
Prepared By:	Shenzhen BST Technology Co., Ltd.
	No.1, Chaomei Industrial Park, No.445, Donghai Road, Yongan Community, Yantian Street, Yantian District, Shenzhen City, Guangdong Province
Test Date:	Dec.26.2023 To Jan.03.2024
Date of Report :	Jan.03.2024
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7DmAMS tKBQmW

IP CODE Report

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EN 60529

Degrees of protection provided by enclosures

Testing Laboratory NameShenzhen BST Technology Co.,Ltd.

Address Building No.23-24, Zhiheng Industrial Park, Guankouer Road, Nantou,

Nanshan District, Shenzhen, Guangdong, China

Testing location Shenzhen BST Technology Co.,Ltd.

Applicant's NameGLOBAL SATELLITE ENGINEERING, LLC

Address 2429 SW 44TH TERRACE FORT LAUDERDALE, FL 33317.USA

Manufacturer GLOBAL SATELLITE ENGINEERING, LLC

Test specification

Standard.....EN 60529:1992+A1:2000+A2: 2013

Procedure deviation IP67

Non-standard test method N/A

Test item description See page 1

Trade See page 1

Model and/or type reference See page 1

Test case verdicts N/A

Test case does not apply to the test object ...: N/A

Test item does meet the requirement P(ass)

Test item does not meet the requirement: F(ail)



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General remarks:

This report shall not be reproduced except in full without the written approval of the testing laboratory. The test results presented in this report relate only to the item(s) tested.

"(see remark #)" refers to a remark appended to the report.

"(see Annex #)" refers to an annex appended to the report.





indicated.

	EN 60529		
CI.	Requirement – Test	Result	Verdict
5	Degrees of protection against access to hazardo foreign objects indicated by the first characteris		Р
5.1	Protection against access to hazardous parts		
	First characteristic numeral is 4Protected against access to hazardous parts with a wire. The access probe of 1,0 mm shall not penetrate		N
5.2	Protection against access solid foreign objects	-	N
	First characteristic numeral is 6Dust-tight No ingress of dust	IP6X No ingress of dust	Р
		100	1
6	Degrees of prote&ion against ingress of water indicated by the second characteristic numeral		
	Second characteristic numeral is 7 Ingress of water in quantities causing harmful effete shall not be possible when the enclosure is temporarily immersed in water under standardized conditions of pressure and time	IPX7 direction shall have no harmful effects.	Р
10	Marking		N
	The requirements for marking shall be specified in the relevant product standard. Where appropriate, such a standard should also specify the method of marking which is to be used when - one part of an enclosure has a different degree of protection to that of another part of the same enclosure; - the mounting position has an influence on the degree of protection; -the maximum immersion depth and time are	No marking F TESTING	N

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	EN 60529			
CI.	CI. Requirement – Test Result		Verdict	
11	General requirements for tests	l .		Р
11.1	Atmospheric conditions for water or dust Tests: Temperature range:15 °C to 35 °C Relative humidity: 25% to 75% Air pressure: 86 kPa to 106 kPa (860 mbar to 1 060 mbar).	15 °C to 38 Relative h 25% to 75 Air pressu 86 kPa to	iumidity: 5% ire:	P
11.2	Test samples The tests specified in this standard are type tests.	Type tests	S.	Р

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12	Tests for protection against access to hazardous first characteristic numeral	parts indicated by the	N
12.1	Access probes The test wire of 1,0 mm 0 shall not penetrate and adequate clearance shall be kept	12	N
12.2	Test conditions For tests on low-voltage equipment, a low-voltage supply (of not less than 40 V and not more than 50 V) in series with a suitable lamp should be connected between the probe and the hazardous parts inside the enclosure. Hazardous live parts covered only with varnish or paint, or protected by oxidation or by a similar process, are covered by a metal foil electrically connected to those parts which are normally live in operation. The signal-circuit method should also be applied to the hazardous moving parts of high-voltage equipment. Internal moving parts may be operated slowly, where this is possible.	TESTING	N
12.3	Acceptance conditions :The protection is satisfactory if adequate clearance is kept between the access probe and hazardous parts.	11-	N

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	EN 60529		
CI.	Requirement – Test	Result	Verdict
13	Tests for protection against solid foreign objection	cts indicated by the first	Р
13.1& 13.2	Test means & Test conditions Test means and the main test conditions are given in Table VII		N
13.3	Acceptance conditions for first characteristic numerals 1,2,3,4 The protection is satisfactory if the full diameter of the probe specified in Table VII does not pass through any opening.	IP6X	N
13.4	Dust test for first characteristic numerals 5 and 6 The test is nade using a dust chamber incorporating the basic principles shown in figure 2 whereby the powder circulation pump may be replaced by other means suitable to maintain the talcum powder in suspension in a closed test chamber the talcum powder used shall be able to pass through a square-meshed sleve the nominal wire diameter of which is 50 um and the nominal width of a gap bettween wires 75um.the amount of talcum powder to be used is 2 kg per cubic metre of the test chamber volume. It shall not have been used for more than 20 tests.	IP6X	P

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14	Tests for protection against water indicated by the second characteristic numeral	14	Р
14.1	Test means & Test conditions Test means and the main test conditions are given in Table VIII	11-	Р
14.2.7	water no entered lamp The test sample is completely soaked in water samples from the surface height of not less than 20mm, bottom of the sample from the bottom height of at least 1m. Experimental test sample was taken after 30 minutes	IPX7 The test sample is completely soaked in water samples from the surface height of not less than 20mm, bottom of the sample from the bottom height of at	Р



14.3 Acceptance conditions	No broken water no entered Test	Р
requirements of 14.2.1 to 14.2.8 the enclosure shall be inspected for ingress of water. It is the responsibility of the relevant Technical	sample inside Dielectric strength test normal	

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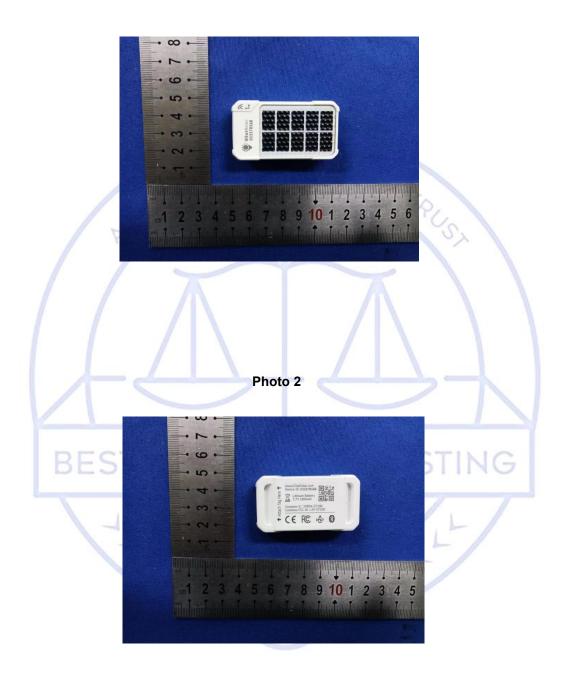


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Photo 1



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