



TEST REPORT

Item No. : WTU18U11127993P

Product Name: Power supply

Type / Model: GTM96180

Client: GlobTek, Inc.

Test Type: Commissioned Test

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WALTEK Services Testing Group
WALTEK SERVICES (SUZHOU) CO., LTD.





TEST REPORT

Reference No. : WTU18U11127993P
Applicant : GlobTek, Inc.
Address : 186 Veterans Dr. Northvale, NJ 07647 USA
Manufacturer : GlobTek (Suzhou) Co., Ltd
Address : Building 4, No. 76, Jin Ling East Rd., Suzhou Industrial Park, Suzhou, JiangSu 215021, China
Product Name : Power supply
Model No. : See model list on page 2 & 4
Qty. : 2 pcs
Test Environment : 23°C ± 5°C, (50% ± 10%) RH
Standards : IEC 60529-2013
Test Category : Commissioned Test
Test Item : Solid proof test(IP2X)、Water proof test (IPX1)
Date of Receipt sample : Nov.2nd,2018
Date of Test : Nov.12th,2018 to Nov.13th,2018
Date of Issue : Nov, 16th,2018
Test Result : Pass

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company.

The report would be invalid without specific stamp of test institute and the signatures of compiler, reviewer and approver.

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List of test items:

No.	Test Items	Test requirement	Model No.	Result
1	Solid proof test(IP2X)	According to test standard IEC 60529-2013 and customer test requirements	See model list	Pass
2	Water proof test (IPX1)		See model list	Pass

Subcontract:

Whether parts of tests for the product have been subcontracted to other labs:

☐ Yes☒ No

If Yes, list the related test items and lab information:

Test items: ---

Lab information: --

Report number: --

Remarks:

1.All models have the same structure except output voltage and current, please see model list as below.

2. Rated input of the all models are 100-240V~, 50-60Hz, and the difference between GT-46120, GTM96060, GTM96180, GT-46180, GT-46240, GTM41076, GT-41052, GT-41080, GT-41081, GT-41135, GT-43007, GT-41062, GT*41080, GTM41134-***, GTM43033-*** series as below list:

Model	Descriptions
GTM41076-06VV-X.X series	were VV can be any rated output voltage between 5 and 30 Vdc and X.X is optional for specifying output voltage deviations, -X.X denotes the optional deviation, subtracted or added from standard output voltage in 0.1 volt increments or blank to indicate the no voltage different.
GT-41052-AABB-X.X series	"AA" is the rated output wattage designation, with a maximum value of "15"; "BB" is the standard rated output voltage designation, with values between "05" to "48"; and, -X.X denotes the optional deviation, subtracted or added from standard output voltage in 0.1 volt increments or blank to indicate the no voltage different.
GT-41080-WWVV-X.X series	WW is the rated output wattage designation, with a maximum value of "18". VV is the standard rated output voltage designation, with a maximum value of "48". -X.X denotes the optional deviation, subtracted or added from standard output voltage in 0.1 volt increments or blank to indicate the no voltage different, Actual voltage range is 9 - 48 volts only.
GT-41081-WWVV-X.X series	WW is the rated output wattage designation, with a maximum value of "18"; VV is the standard rated output voltage designation, with a maximum value of "09"; -X.X denotes the optional deviation, subtracted or added from standard output voltage in 0.1 volt increments or blank to indicate the no voltage different.
GT-41135-WWVV-X.X series	WW is the rated output wattage designation, with a maximum value of "12"; VV is the standard rated output voltage designation, with a maximum value of "48"; -X.X denotes the optional deviation, subtracted or added from standard output voltage in 0.1 volt increments or blank to indicate the no voltage different.
GT-43007-WWVV-X.X series	WW is the rated output wattage designation, with a maximum value of "40.8"; VV is the standard rated output voltage designation, with a maximum value of "24"; -X.X denotes the optional deviation, subtracted or added from standard output voltage in 0.1 volt increments or blank to indicate the no voltage different.
GT-41062-AABB-X.X series	AA denotes the maximum rated wattage, either "13" or "18", BB denotes the standard maximum rated voltage, which may be 5.0-24.0 Vdc as shown in the ratings table, -X.X denotes the optional deviation,



	subtracted or added from standard output voltage in 0.1 volt increments or blank to indicate the no voltage different.
GT*41080-*** series	The 1st “*” part can be ‘M’ or ‘-’ or ‘H’ for market identification and not related to safety.
	The 2nd “*” part denotes the rated output wattage designation, which can be “01” to “18”, with interval of 1.
	The 3rd “*” part denotes the standard rated output voltage designation, which can be “07”, “11”, “17.9”, “30”, “38” and “48”. Each standard rated output voltage designation corresponds to a transformer model. Each transformer model is identical in insulation construction including clearance and creepage except number of turns per coil.
	The 4th “*” part is optional, which can be “-0.1” to “-12” with interval of 0.1 to denote voltage deviation or blank to indicate no voltage different. The result by subtracting the deviation value from the standard rated output voltage denotes the rated output voltage, with a range of 5 – 48 volts.
GTM41134-*** series	M can be “M” or “-” for market identification and not related to safety
	The 1st “*” denote the rated output wattage designation, which can be “01” to “06”, with interval of 1.
	The 2nd “*” denote the standard rated output voltage designation, which can be “03”, “04”, “06”, “12”, “15”, “18”, “24”, “36” or “48”.
	The last “*” is optional deviation, subtracted from standard output voltage, which can be “-0.1” to “-11.9” with interval of 0.1, or blank to indicate no voltage different.
GTM43033-*** series	The last “**” together denote the output voltage, with a range of 3.3 - 48 volts.
	M can be “M” or “-” for market identification and not related to safety
	The 1st “*” part denotes the rated output wattage designation, which can be “01” to “06”, with interval of 1.
	The 2nd “*” part denotes the standard rated output voltage designation, which can be “03”, “04”, “06”, “12”, “15”, “18”, “24”, “36” or “48”. These standard rated output voltage designations correspond to three transformer models. Each transformer model is identical in insulation construction including clearance and creepage except number of turns per coil.
GT-46120-WWVV-X.XX-W2Z*****	The 3rd “*” part is optional, which can be “-0.1” to “-11.9” with interval of 0.1 to denote voltage deviation or blank to indicate no voltage different. The result by subtracting the deviation value from the standard rated output voltage denotes the rated output voltage, with a range of 3 – 48 volts.
	WW is the standard output wattage, with a maximum value of 12".
	VV is the standard rated output voltage designation, with a maximum value of “48”, which can be 05,06,09,12,15,24,36,48.
	-X.XX denote the output voltage differentiator, subtracting X.XX volts from standard output voltage VV in 0.01V increments, the actual output voltage range is 5-48V, blank is to indicate the no voltage different.
GT-46180-WWVV-X.XX*****	Z denote type of plug and can be E for European plug, U for British plug, blank for North American/Japan/Taiwan plug, C for Chinese plug, A for Australia plug.-W2Z can be optional, when it is blank, denote to be with replaceable plug.
	Each * = 0-9 or A-Z or ()[] - or blank for marketing purposes.
GT-46180-WWVV-X.XX*****	WW is the standard output wattage, with a maximum value of “18”,
	VV is the standard rated output voltage designation, with a maximum value of “24”; which can be 05,09,12,15,18,24.
GT-46180-WWVV-X.XX*****	-X.XX denote the output voltage differentiator, subtracting X.X volts



	from standard output voltage VV in 0.01V increments, the actual output voltage rang is 5-24V, blank is to indicate the no voltage different. Each * = 0-9 or A-Z or ()[] - or blank for marketing purposes.
GT*41134***** GT*96060***** and	<p>The 1st "*" part can be 'M' or '-' or 'H' for market identification and not related to safety.</p> <p>The 2nd "*" part can be "-" or "CC", "-" = Constant Voltage Model, CC = Constant Current Model.</p> <p>The 3rd "*" denotes the rated output wattage designation, which can be "01" to "06", with interval of 1.</p> <p>The 4th "*" denotes the standard rated output voltage designation, which can be "03", "04", "06", "12", "15", "18", "24", "36" or "48". The 5th "*" is optional deviation, subtracted from standard output voltage, which can be "-0.1" to "-11.9" with interval of 0.1, or blank to indicate no voltage different.</p> <p>The 4th "*" and 5th "*" together denote the output voltage, with a range of 3.3 - 48 volts.</p> <p>The 6th "*" = Blank means directly plug in model series, The last * denote any six character = 0-9 or A-Z or ()[] or - or blank for marketing purposes.</p>
GT**_*****	<p>The 1st "*" part can be 'M' or '-' or 'H' for market identification and not related to safety.</p> <p>The 2nd "*" can be 96180.</p> <p>The 3rd "*" denotes the rated output wattage designation, which can be "01" to "36", with interval of 1.</p> <p>The 4th "*" denotes the standard rated output voltage designation, when the 2nd "*" = 96180 which can be "07", "11", "17.9", "30", "38", "48", "54" or "56".</p> <p>The 5th "*" is optional deviation, subtracted from standard output voltage, which can be "-0.01" to "-12.0" with interval of 0.01, or blank to indicate no voltage different.</p> <p>The 4th "*" and 5th "*" together denote the output voltage, with a range of 5 - 56 volts.</p> <p>The 6th "*" = blank, it means wall plug in with interchangeable blade.</p> <p>The last * denote any six character = 0-9 or A-Z or ()[] or - or blank for marketing purposes.</p>
GT-46240-WWVV-X.XX*****	<p>WW is the standard output wattage, with a maximum value of "24", VV is the standard rated output voltage designation, with a maximum value of "24"; which can be 12, 15 and 24.</p> <p>-X.XX denote the output voltage differentiator, subtracting X.X volts from standard output voltage VV in 0.01V increments, the actual output voltage rang is 12-24V, blank is to indicate the no voltage different. Each * = 0-9 or A-Z or ()[] - or blank for marketing purposes.</p>



Solid proof test (IP2X)

1. Test standard:

According to test standard IEC 60529-2013, section 13 and customer test requirements

2. Test Method:

1) Protects the equipment inside the enclosure against ingress of solid foreign objects having a diameter of 12,5 mm and greater.

2) Test force: 30 N \pm 10 %

3. Acceptance Conditions:

After the test, The protection is satisfactory if the full diameter of the probe specified does not pass through any opening.

4. Test Result:

After the test, no solid enters the inside of the sample and the function is normal, meeting customer test requirements.



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**Appendix I Sample Photos before test:**

Power supply (GTM96180)



Function



Power supply (GTM96180)



Function

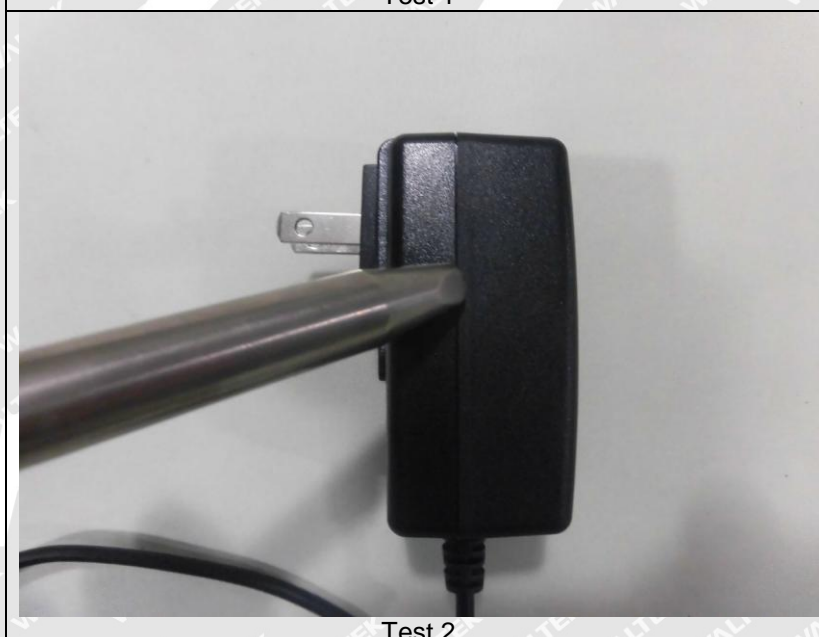
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Appendix II Test Photos:



Test 1



Test 2

**Appendix III Sample photos after test:**

Power supply (GTM96180)



Power supply (GTM96180)



Function test



Function test

Appendix IV Equipment Used during Test

Equipment	Model/Type	Cal. Due Date
Multimeter	MT-1280	2019.10.15



Water proof test (IPX1)

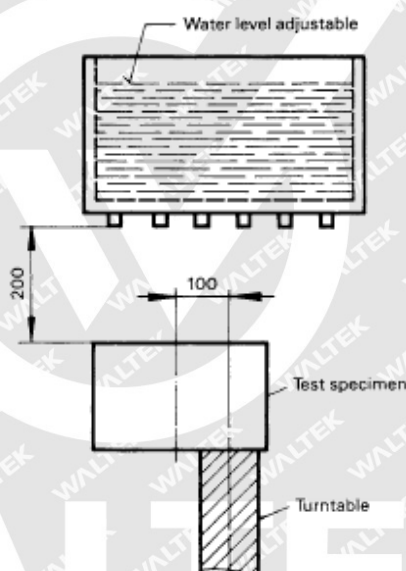
1. Test standard:

According to test standard IEC 60529-2013, section 14.2.1 and customer test requirements

2. Test Method:

The test is made with a device which produces a uniform flow of water drops over the whole area of the enclosure. An example of such a device is shown in figure a

The turntable on which the enclosure is placed has a rotation speed of 1 r/min and the eccentricity (distance between turntable axis and specimen axis) is approximately 100 mm.



a) Second characteristic numeral 1

2) Test time: 10 minutes.

3. Acceptance Conditions:

After the test, no water enters the inside of the sample and the function is normal;

4. Test Result:

After the test, the function is normal, meeting customer test requirements.



Appendix I Sample Photos before test:



Power supply (GTM96180)



Function

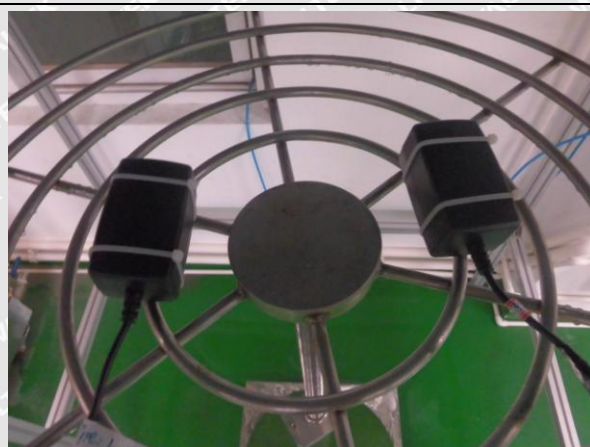


Power supply (GTM96180)

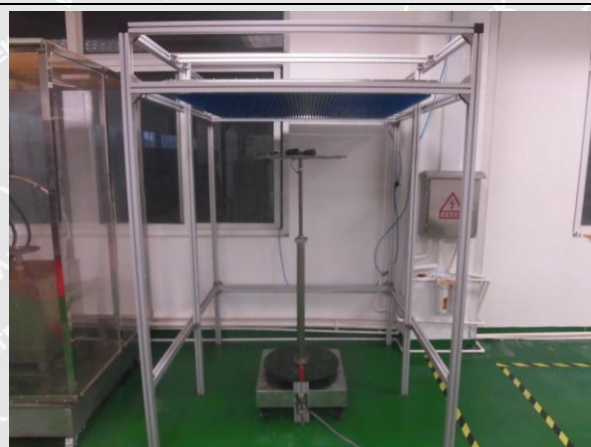


Function

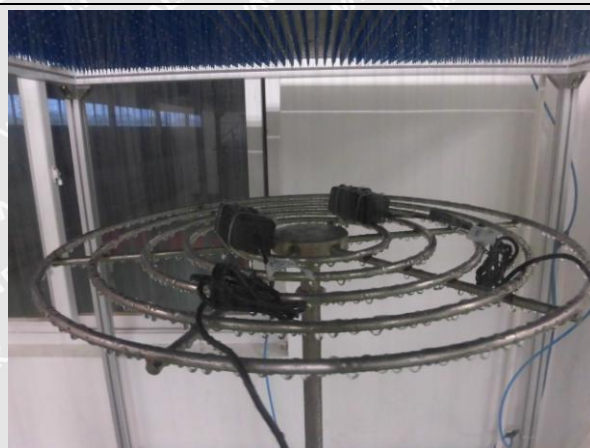
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**Appendix II Test Photos:**

Setup



Test 1



Test 2



Test 3

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**Appendix III Sample photos after test:**

Power supply



Function test

Appendix IV Equipment Used during Test

Equipment	Model/Type	Cal. Due Date
Water proof test system	FZ-9600	2019.03.30
Multimeter	MT-1280	2019.10.15

===== The End =====