



TEST REPORT

Reference No.	WTX23D10218936Z002
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Applicant.....: GlobTek, Inc.

Manufacturer.....: GlobTek, Inc.

Address. : 186 Veterans Dr. Northvale, NJ 07647 USA

Product Name : Blades-R

Model No. : R-NA-2

Ratings.....: N/A

Standards.....: UL 1310:2018 Ed.7+R:16Aug2019, UL 62368-1:2019

Test Item See list of test item

Date of Receipt sample.....: 2023-10-18

Date of Test : 2023-10-18 to 2023-11-15

Date of Issue 2023-11-20

Test Result.....: The submitted samples comply with the above standards

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 and approver.

Prepared By:

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Compiled by:

Approved by:

Dave Feng /Project Engineer

Sam Qi / Designated Reviewer



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List of test items:

No.	Test Items	Requirement + Test	Result
1 LIE	WEIGHT AND MOMENT DETERMINATION	UL 1310: 2017 Clause 7.11	Pass
2	BLADE SECUREMENT TEST	UL 1310: 2017 Clause 43	Pass
3	SECURITY OF INPUT CONTACTS	UL 1310: 2017 Clause 44	Pass
4 🐠	ROD PRESSURE TEST	UL 1310: 2017 Clause 46.4	Pass
5	DIRECT PLUG-IN RESISTANCE TO CRUSHING	UL 1310: 2017 Clause 46.5	Pass
6	DIRECT PLUG IN EQUIPMENT-MOMENT TEST	UL 62368-1 4.7	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: --

Name and address of factory (ies):

1: GlobTek, Inc. 186 Veterans Dr. Northvale, NJ 07647 USA

2. GlobTek (Suzhou) Co., Ltd Building 4, No. 76, Jin Ling East Rd., Suzhou Industrial Park, Suzhou, JiangSu 215021, China

Remarks:

The product with models R-NA-2 is Plug with detachable US plug and connector The maximum ambient temperature specified by manufacturer is 40°C Connector on detachable plug part with adaptor has been tested with the appliance according to IEC 60320-1:2021 see report No. WTX23D10218936Z001



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20		UL 1310	
Clause	Requirement – Test	Result – Remark	Verdict

Equipment's combined with two-pole plug (Class II)

1	Dimensions	A ST SET SET SET	P
1.1	Checked according to NEMA WD 6-2002 figure 1-15	t whit with with an a	Р
1.2	Checked according to figure 7.1, 7.5, sub- clauses 7.11, 7.16 of ANSI/UL 1310	(see appended table)	P
2	Direct Plug-In Blade Secureness Test	white mut were my my	P
2.1	Each blade subject to pull test (89N / 2 min) and then two blade subject to pull test (89N / 2min) together. The displacement of each blade shall not exceed 2.4 mm measured 2 minute after remove the weight. (clause 43 of ANSI/UL 1310)	(see appended table)	ATEX WATE
3	Direct Plug-In Security of Input Contacts Test	tet tet tiet stiet stiet stie	P
3.1	Push test of each blade (133N / 1 min); (clause 44.1.2 of ANSI/UL 1310)	(see appended table)	ALTE P
3.2	Then the same specimen subject to push test of all blades (178N / 1 min); (clause 44.1.3 of ANSI/UL 1310) The blades shall not loosen.	(see appended table)	White white
3.3	Folding and retracting blades subject to 6000 cycle rotating	THE THE TIES WITH MITTER	N
3.4	After test, it shall a) Be operational b) Not expose live part c) Not influence plug and unplug to receptacle d) Comply with test of clause 43, 44.1.2, 44.1.3 e) Not alter the temperature rise of blade contact under normal operation	LEX WHITEK	TEK WALTER
4 ,un	Resistance to crushing on direct plug-in units (clause 46.5.1 of ANSI/UL 1310)	TEK TEK WITER WITER WITER WITER	PAL
	A sample of each model tabulated below	The The The	Р



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211		UL 1310	
Clause	Requirement – Test	Result – Remark	Verdict

	10.1.20	The state of the s	-0,1
WALTER WA	was placed between two maple blocks each not less than 1/2 in. thick and one having slots for the plug blades. A crushing force of 75 lb was applied gradually in a direction normal to the mounting surface for a period of 1 minute.	NUTER WHITER WHITER WHITER WHITER W	MALTER WALTER
MUTTER	There was no splitting, cracking or shattering of the enclosure that would expose internal wiring or hazardous live parts.	divited whited whited whites white	WIND WIN
5	Rod pressure on direct plug-in units(clause 46.4 of ANSI/UL 1310)	EX WHITEK WHITEK WHITEK WH	The Public
MULTER WALTER	A force increasing from 0 to 20 pounds-force (0 to 89 N) over a time period of 5 seconds was applied through the axis of a rod perpendicular to the surface of the enclosure. The rod was 1/2 in. (12.7 mm) diameter, having a flat contact end with the edge rounded to a radius of 1/32 in. (0.8 mm) to eliminate sharp edges. The force was maintained at 20 pounds for 1 minute.	AND TEK WALTER W	PIE WALTER WALTER
Whitek whitek	During this test, peak voltage and touch current were monitored between earth ground and all parts of the enclosure (the outer foil wrap). If the Peak Voltage was less than 42.4 V, then the Leakage Current was not measured. Following the test, the sample was subjected to the Electric Strength Test.	ALTER WHITER WHI	MILIER WALTER
6.	DIRECT PLUG- IN EQUIPMENT-MOMENT TEST (Clause 4.3.6 UL60950)	tek mutek mutek mutek mutek w	MITP WITE
70	Torque	MULT MET MET AND AND AND	Р
NUTE OF	Compliance with the relevant mains plug standard:	WALLER WHILE WHILE WHILE WHILE	P

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1-WEIGHT AND MOMENT DETERMINATION: (DIRECT PLUG-IN UNIT) (clause 7.11, UL1310)

METHOD

The output cord was not included in the weight measurement.

Each sample was weighed and the distance to the center of gravity was measured using suitable instruments. The distance between the center of the blades and the center of gravity was measured. The moments were then calculated by taking the products of the above measurements.

- W = Weight of the device.
- S = The lesser of S₁ and S₂.
- S_1 = Distance from the center of the blades to the left side of the enclosure.
- S_2 = Distance from the center of the blades to the right side of the enclosure.
- X =The greater of X_1 and X_2 .
- X_1 = Distance from the horizontal axis passing through the center of the blades to the center of gravity.
- X_2 = Distance from the vertical axis passing through the center of the blades to the center of gravity.
- Y = Distance from the face [blade side] to the center of gravity.
- Z =The lesser of Z_1 and Z_2 .
- Z_1 = Distance from the center of the blades to the top of the enclosure.
- Z₂ = Distance from the center of the blades to the bottom of the enclosure.

WEIGHT AND MOMENT DETERMINATION: (DIRECT PLUG-IN UNIT) (CONT'D)

RESULTS

Values are in grams or millimeters.

Mode	I W	S	X	SEL YOUR	an Z an	WY/Z	WY/S	wx
R-NA-	2 230g	26.22mm	36.73mm	14.77mm	18.00mm	188.8g	129.6g	0.082Nm

W did not exceed 794 grams, WY/Z did not exceed 1361 grams, WY/S did not exceed 1361 grams, and WX did not exceed 0.56 Nm (57606 gram-millimeters).

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2 - DIRECT PLUG-IN BLADE SECUREMENT TEST(clause 43, UL1310)

TEX TIPL MITES MITES	Displacement (mm)					
Model	Blade 1	Blade 2	Grounding Pin	Blade 1 and 2		
Model R-NA-2 (Test was performed for all sources of enclosure material)	0.01	0.01	White Haires W	0.01		

The blades did not loosen by more than 2.4 mm or pull out.

3 - DIRECT PLUG-IN SECURITY OF INPUT CONTACTS(clause 44, UL1310)

alter mite antity will y	Displacement (mm)				
Model	Blade 1	Blade 2	Both Blades		
Model R-NA-2 (Test was performed for all sources of enclosure material)	0.01	O.O.	0.01		

The blades did not loosen to a degree that would introduce a risk of a fire or an electric shock.

4 - DIRECT PLUG-IN ROD PRESSURE TEST(clause 46.4, UL1310)

Model	Rod Pressure Point	Voltage (Vpk)	Touch Current Required?
MODEL R-NA-2 (Test was performed for all	Center of enclosure face closest to	23.8V	Yes
sources of enclosure material)	transformer		White white

SINGLE-PHASE EQUIPMENT - Figure 5A.

The test was made in all combinations to the normal and reverse polarity of the supply circuit (Polarity Switch P1).

Terminal A (Switch "s") of Switch "e"	Switch "e"	Touch Current (mA r.m.s.) Polarity P1/Primary Switch Condition				
Measuring Instrument Connected to:	Position	Normal/On	Normal/Off	Reverse/On	Reverse/Off	
Enclosure with metal foil	NE THE	0.018	- WILLER WALLE	0.020	mr. m.	

The touch curren did not exceed 0.25 mA r.m.s with terminal A connected to the earth terminal of the unit with Switch "e" closed.



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5 - DIRECT PLUG-IN RESISTANCE TO CRUSHING(clause 46.5, UL1310)

Model	Observations	SLIEK O
MODEL R-NA-2	TEX TEX TIES WHITE WHITE WHITE WHITE WHITE	11 20
(Test was performed for all	No cracking. Intact	
sources of enclosure material)	THE THEY WITH MULT MULT MULT WITH MIT WITH	بار ب

There was no splitting, cracking or shattering of the enclosure that would expose internal wiring or hazardous live parts.

6- DIRECT I	PLUG IN EQ	JIPMENT-MOMEN ⁻	ΓTEST(4.7	, UL 62368-1
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4.7 Torque test for equ socket-outlets	mains	I/A ☐ Fail 🏻	☐ Pass			
Test Requirement:	nn n	TEX NIE	MITEL MAIN	EK WALTER WALTE	WALLE	ans
The additional torque fron	n plug-in equipment a	pplied to the	socket-outlet s	hall not exceed 0,	,25 Nm	
Remark (additional info		Jer .	Tet Willet	nitet water w	NITEK W	LIER.
the the large and	gagement face in ver	tical plane) =	Torque (Nr	WALTER WAL	i Er Mali	sult
Plug type	Orientation	Force (N)	14 AF	WALTER WAL	i Er Mali	sult Fail
RETER OF THE STATES		Force	Torque (Nr	n) Calculated	Re	1/4

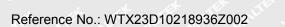
0.49

□ Reverse

61

0.030

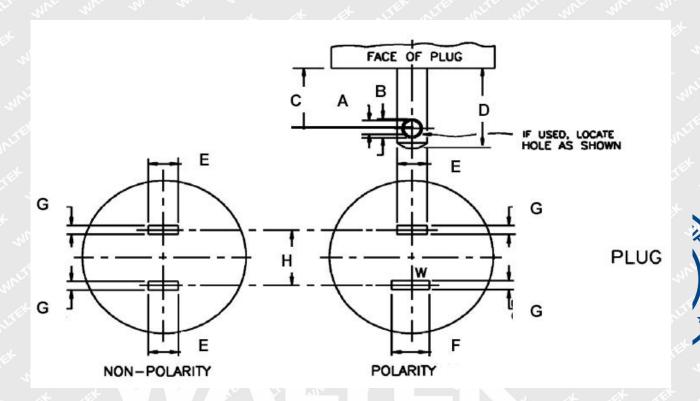
Supplementary information: --





Dimension Checking for Two-pin plugs of NA (1.2 A, 100-240 V)

According to (NEMA WD 6-2002 Figure 1-15)



_			11. 72.					
For non-polarity plug								
Symb	Requirement	Measured	Symb	Requirement	Measured			
ol	(inch)	(inch)	ol	(inch)	(inch)			
Α	0.120 - 0.130	0.124	AU,E A	0.240 - 0.260	0.246			
B	0.151- 0.161	0.153	√F ,	0.307 - 0.322	The Moth Mar			
of C	0.449 - 0.479	0.469	G	0.055 - 0.065	0.057			
D	0.625 - 0.718	0.638	JOH HUTE	0.495 - 0.505	0.502			
Perimeter faces to the plug blades shall not be less than 7.9 mm (intended for use with children's toys) or 5.1 mm from any point of either blade For CSA standard CSA C22.2 No 223, clause 4.5.1.4								

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Photo Documentation:

Model: R-NA-2



Photo 1



Photo 2

=====End of Report=====