



中国认可
国际互认
检测
TESTING
CNAS L3110



TEST REPORT

Reference No...... : WTX23D10218933Z002
Applicant..... : GlobTek, Inc.
Address..... : 186 Veterans Dr. Northvale, NJ 07647 USA
Manufacturer..... : GlobTek, Inc.
Address..... : 186 Veterans Dr. Northvale, NJ 07647 USA
Product Name..... : Blades-R
Model No..... : R-EU-3
Total pages..... : 11 pages
Standards..... : DIN VDE 0620-1:2016+A1:2017
Date of Receipt sample..... : 2023-10-18
Date of Test..... : 2023-10-18 to 2023-11-15
Date of Issue..... : 2023-11-18
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:

Waltek Testing Group Co., Ltd.

Address: No.77,Houjie Section, Guantai Road., Houjie Town, Dongguan City, Guangdong, China

Tel: +86-769-2267 6998

Fax: +86-769-2267 6828

Compiled by:

Dave feng / Project Engineer

Approved by:

Sam Qi / Designated Reviewer



DIN VDE 0620

Clause	Requirement – Test	Result – Remark	Verdict
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Test item description: Blades-R

Trademark: 

Model and/or type reference: R-EU-3

Serial number: N/A

Rating(s).....: N/A

General product information:

The product with models R-EU-3 is Plug with detachable EU 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. WTX23D10218933Z001

Table of critical components and materials:

Object / Part No.	Manufacturer / Trademark	Type / Model	Technical data	Standard	Mark(s) of conformity
Enclosure for Appliance inlet	SABIC JAPAN L L C	945(GG)	V-1,105°C, Min. thickness 2.0mm	UL94,UL746	Tested with appliance UL 207780
Plug lateral contacts	Dongguan Yuci Hardware Electron Co.,Ltd.	H65	Cu>85%	IEC 60320-1	Tested with appliance
alternative	FOSHANG GUANGLONG copper and metal manufacture CO.,Ltd	H65	Cu>85%	IEC 60320-1	Tested with appliance
alternative	Yuyao Yonghai Hardware product Co.,Ltd	H65	Cu>85%	IEC 60320-1	Tested with appliance
Enclosure for Connector	SABIC JAPAN L L C	945(GG)	V-1,105°C, Min. thickness 2.0mm	UL94,UL746	Tested with appliance UL 207780
Contact for Connector	FOSHANG GUANGLONG copper and metal manufacture CO.,Ltd	H65	Cu>85%	IEC 60320-1	Tested with appliance
alternative	Dongguan Yuci Hardware Electron Co.,Ltd.	H65	Cu>85%	IEC 60320-1	Tested with appliance
alternative	Yuyao Yonghai Hardware product Co.,Ltd	H65	Cu>85%	IEC 60320-1	Tested with appliance



DIN VDE 0620			
Clause	Requirement – Test	Result – Remark	Verdict

Summary of testing:

We conclude that the products presented in this test report complies with VDE 0620-1 according to the test results on the submitted samples.

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

Test case verdicts

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

Test item does meet the requirement: P (Pass)

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

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DIN VDE 0620			
Clause	Requirement – Test	Result – Remark	Verdict

8	MARKING		P
8.1	Accessories marked with:		P
	• rated current (A)		P
	• rated voltage (V)		P
	• symbol for nature of supply	~	P
	• manufacturer's or responsible vendor's name ...		P
	• type reference		P
	• symbol for degree of protection (first digit)	IP2X	P
	• symbol for degree of protection (second digit) :	IPX0	P

9	CHECKING OF DIMENSIONS		P
	Plugs shall comply with Standard Sheet 1.	See table (dimensions of plug)	P
	compliance is checked by measurement and by means of the gauges shown in figures 1 and 2.		P
	The use of the gauges shown in figure 1 for checking the diameter of the pins, is optional.		P

10	PROTECTION AGAINST ELECTRIC SHOCK		P
10.1	Test with standard test finger shown in figure 2 of DIN EN 61032		P
	Ambient temperature: 35 ± 2 °C		P
	with a straight unjointed test finger (75 N for 1 min)		P
	Plugs and portable socket-outlets pressed with a force of 150 N for 5 min as shown in figure 22: specimens not show deformation		
10.3	Connection between a pin of a plug and a live socket-contact of a socket-outlet not possible while any other pin is accessible		P
	Ambient temperature: 35 ± 2 °C		P
10.4	External parts of insulating material		P

14	CONSTRUCTION OF PLUGS		P
14.1	Non-rewirable plug		P
	Accessory cannot be opened by hand or by using a general purpose tool, for example a screwdriver used as such		P
14.2	Pins of plugs and portable socket-outlets: adequate mechanical strength		P



DIN VDE 0620			
Clause	Requirement – Test	Result – Remark	Verdict
	Test for pins not solid (made after clause 21): force of 100 N exerted on the pin for 1min by means of a steel rod \varnothing 4,8 mm		N/A
	During the application of the force: reduction of the dimension of the pin not exceed 0,15 mm		N/A
	After removal of the rod: dimensions of the pin not changed by more than 0,06 mm		N/A
14.3	Pins of adaptors:		P
	- locked against rotation, except where rotation is not likely to impair safety or function		P
	- not removable without dismantling the adaptor		P
	- adequately fixed in the body of the adaptor when the plug is wired and assembled as in normal use		P
	Earthing or neutral pins or contacts of adaptors: not possible to replace in an incorrect position		P
	The pin(s) of portable accessories constructed in such a way that the mechanical strength of the pin(s) does not depend on the plastic material		P
	Compliance is checked by inspection and in case of doubt by the tests of 14.2 and Clause 21 on a new set of specimens without plastic		P
	Surfaces of plug pin(s) smooth and free from burrs or sharp edges and other irregularities which could cause damage or excessive wear to corresponding socket contacts or shutters		P
14.6	Pins and socket-contacts: resistant to corrosion and abrasion		P
14.23	Plug-in equipment: not cause overheating of the pins or impose undue strain		P
	Plugs with rating above 16 A and 250 V: not integral part of other equipment		N/A
	Tests for two-pole plugs, with or without earthing contact, with rating up to and including 16 A and 250 V (plug of equipment inserted into a fixed socket-outlet complying with this standard):		N/A
14.23.1	Socket-outlet connected to a supply voltage equal to 1,1 times the highest rated voltage of the equipment (V)		P
	Temperature rise of the pins after 1 h not exceed 45 K(K)		P
14.23.2	Additional torque applied to the socket-outlet to maintain the engagement face in the vertical plane not exceed 0,25 Nm (Nm)		P
14.24	Plugs: can easily withdrawn by hand from the relevant socket-outlet		P
	Gripping surfaces: so designed that the plug can be withdrawn without pull on the flexible cable		P



DIN VDE 0620			
Clause	Requirement – Test	Result – Remark	Verdict

16	RESISTANCE TO AGEING, TO HARMFUL INGRESS OF WATER AND TO HUMIDITY		P
16.1	Resistance to ageing		P
	Accessories shall be resistant to ageing		P
	Accessories subjected to a test in a heating cabinet at 70 °C ± 2 °C for seven days (168 h)		P
	After the tests, samples shall show:		
	<ul style="list-style-type: none"> no crack visible with normal or corrected vision without additional magnification 		P
	<ul style="list-style-type: none"> no sticky or greasy material 		P
	<ul style="list-style-type: none"> no trace of cloth (forefinger pressed with 5 N) 		P
	<ul style="list-style-type: none"> no damage 		P
16.3	Resistance to humidity		
	Humidity between 91 % ~ 95 % and temperature between 20 °C ~ 30 °C for 48 h.	93% R.H., 25°C, 48 h	P
	After this treatment the specimens show no damage		P

17	INSULATION RESISTANCE AND ELECTRIC STRENGTH		P
17.1	Resistance $\geq 5M\Omega$ (500 V, 1 min)		P
17.2	Electric strength test (2000 V, 1 min): no flashover or breakdown	No breakdown.	P

23	FLEXIBLE CABLES AND THEIR CONNECTION		N/A
	Cords in compliance with HD 21.5 or HD 22.4		N/A

24	MECHANICAL STRENGTH		P
24.2	Tumbling barrel test: number of falls..... :	500 falls was conducted	P
	Torque test on pins (0.4 Nm, 1 min)		P
24.7	Plug pins provided with insulating sleeves: 20000 movements, 4 N (apparatus shown in fig. 29)		N/A
	After the test: no damage of pins, insulating sleeve not have punctured or rucked up		N/A
24.10	Plugs: pull test to verify the fixation of pins in the body of the plug (new specimens)		N/A
	Maximum withdrawal force (table 16) applied for 1 min on each pin in turn, after the specimen has been placed at 70 °C for 1 h		N/A
	After the test: displacement of pins in the body of the plug ≤ 1 mm		N/A

25	RESISTANCE TO HEAT		P
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Clause	Requirement – Test	Result – Remark	Verdict
25.1	Portable accessories: heating cabinet 100 °C for 1 h		
	During the test: no change impairing their further use and sealing compound, if any, not flow		P
	After the test: markings still legible		P
25.2	Parts of insulating material of fixed socket-outlets necessary to retain current-carrying parts and parts of the earthing circuit in position, and parts of the front surface zone of 2 mm width surrounding the phase and neutral pin entry holes: ball-pressure test (1 h, 125 °C)		P
	After the test: diameter of impression ≤ 2 mm :	0.5 mm	P
25.3	For parts not necessary to retain current-carrying parts and parts of the earthing circuit in position, even though in contact with them: ball-pressure test (1 h)		P
	Test temperature (70 °C or 40 °C + highest temperature rise determined during the test of clause 19) :		P
	After the test: diameter of impression ≤ 2 mm :	1.1 mm	P
25.4	Portable accessories: compression test (20 N, 1 h, 80 °C) by means of the apparatus shown in figure 37		P
	After the test: no damage		P
26	SCREWS, CURRENT-CARRYING PARTS AND CONNECTIONS		P
26.1	Connections withstand mechanical stresses		P
26.5	Current-carrying parts of metal having mechanical strength, electrical conductivity and resistance to corrosion adequate:		P
	• copper;		N/A
	• alloy with at least 58 % copper for parts made from cold-rolled sheet or with at least 50 % copper for other parts;		P
	• stainless steel with at least 13 % chromium and not more than 0,09 % carbon		N/A
	• steel with electroplated coating of zinc (ISO 2081), with thickness of at least:		N/A
27	CREEPAGE DISTANCES, CLEARANCES AND DISTANCES THROUGH SEALING		P
27.1	Creepage distances and clearances between live parts ≥3 mm		P
	Creepage distances and clearances between live parts and accessible external surfaces ≥3 mm		P
	Distance through insulation ≥1.5 mm		P
28	RESISTANCE OF INSULATING MATERIAL TO ABNORMAL HEAT, TO FIRE AND TO TRACKING		P

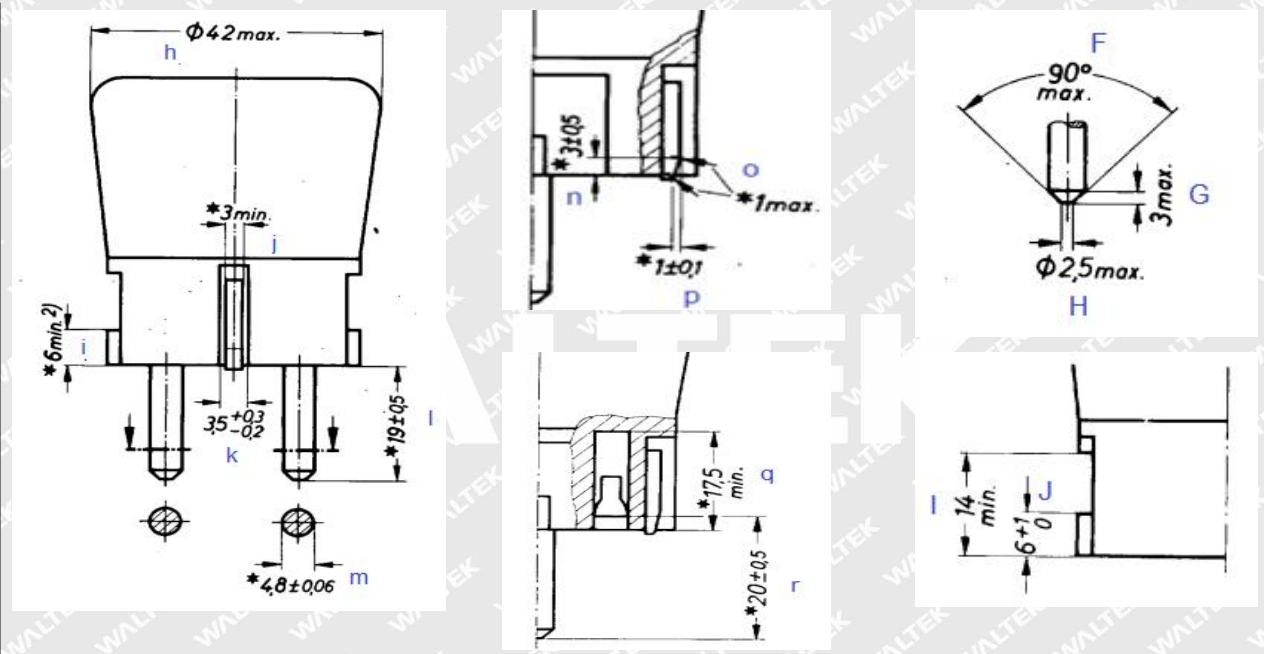
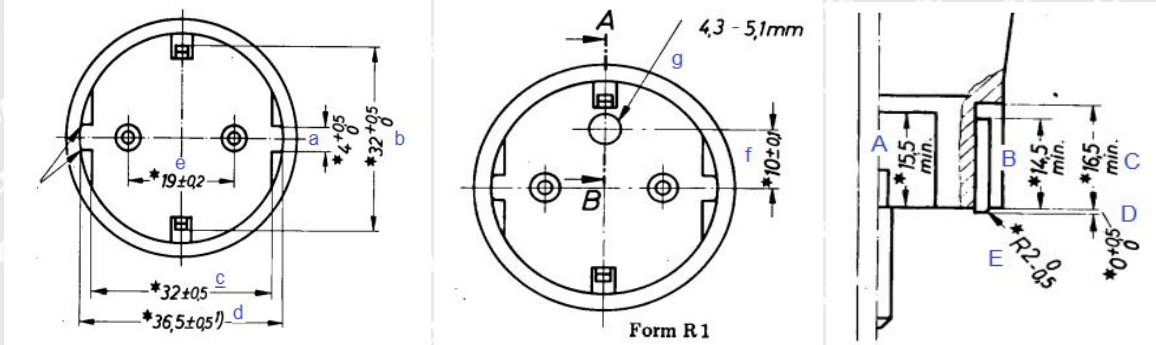


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Clause	Requirement – Test	Result – Remark	Verdict
28.1	Glow-wire test (750 °C for parts necessary to retain current-carrying parts in position): no visible flame, no sustained glowing or flames and glowing extinguish within 30 s after removal of glow-wire	Glow wire test performed on plug pin holder with 750°C.	P
	Glow-wire test (650 °C for other parts): no visible flame, no sustained glowing or flames and glowing extinguish within 30 s after removal of glow-wire	Glow wire test performed on plug portion with: 650°C.	P
28.2	Resistance to tracking		P
	Parts of insulating material retaining live parts in position of accessories other than ordinary: test voltage 175 V, 50 drops, solution A of IEC 112	No flashover or breakdown	P

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Sub-clause 7 Dimension of plug shall comply with standard sheet1. Unit (mm)



**Appended table:**

Dimensions	Measurement (mm)			Limit (mm)
	Sample No. 1	Sample No. 2	Sample No. 3	
a	4.03	4.00	4.02	18.8-19.2
b	32.08	32.10	32.05	4.0-4.5
c	31.59	31.60	31.61	32.0-32.5
d (not less than this diameter within 6mm from engagement surface)				
	36.32	36.30	36.29	36-37
d (not more than this diameter within 18mm from engagement surface)				
	--	--	--	36-37
e	18.92	18.90	18.89	18.8-19.2
f	--	--	--	9.9-10.1
g	--	--	--	4.3-5.1
h	--	--	--	Max. Ø42
i	3.62	3.60	3.58	3.3-3.8
j	19.30	19.28	19.31	18.5-19.5
k	4.78	4.77	4.76	Ø4.74- Ø4.86
n	3.0	3.0	3.0	2.5-3.5
o	--	--	--	Max. 1
p	--	--	--	0.9-1.1
q	--	--	--	Min. 17.5
r	--	--	--	19.5-20.5
A	17.53	17.50	17.48	Min.15.5
B	18.20	18.17	18.20	Min. 14.5
C	22.10	22.10	22.08	Min. 16.5
D	--	--	--	0-0.5
E	--	--	--	R1.5-2.0
F	--	--	--	Max. 90°
G	--	--	--	Max. 3
H	--	--	--	Max. Ø2.5
I	22.12	22.11	22.10	Min. 14
J	--	--	--	6-7



Photo Documentation:

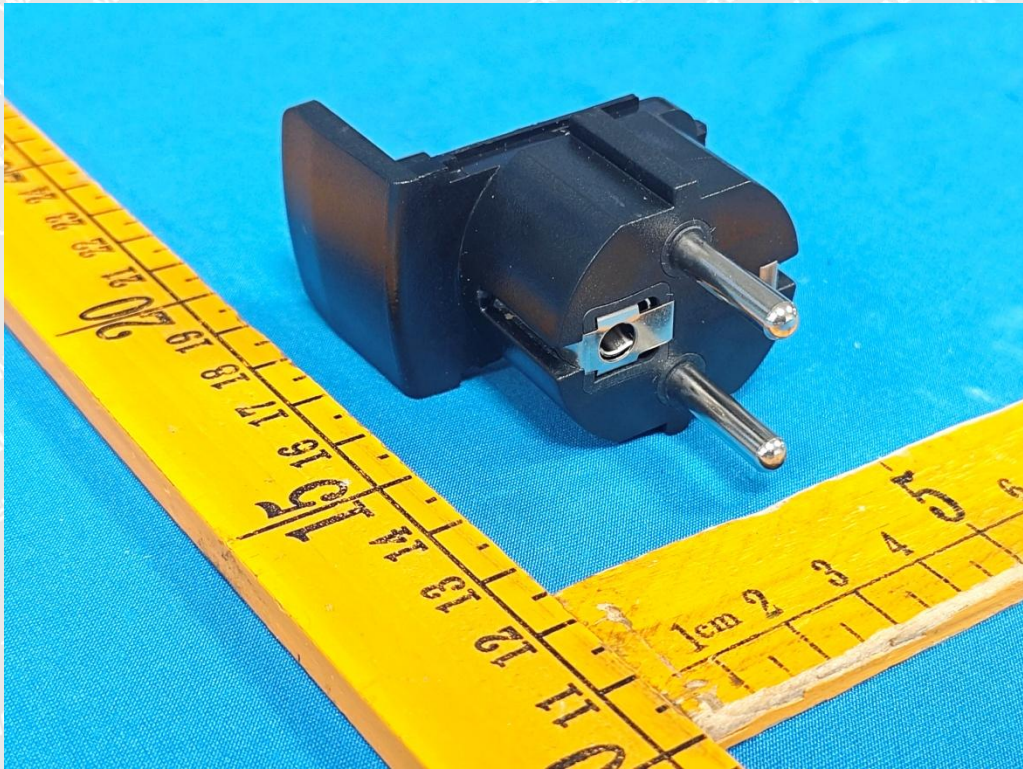


Photo 1

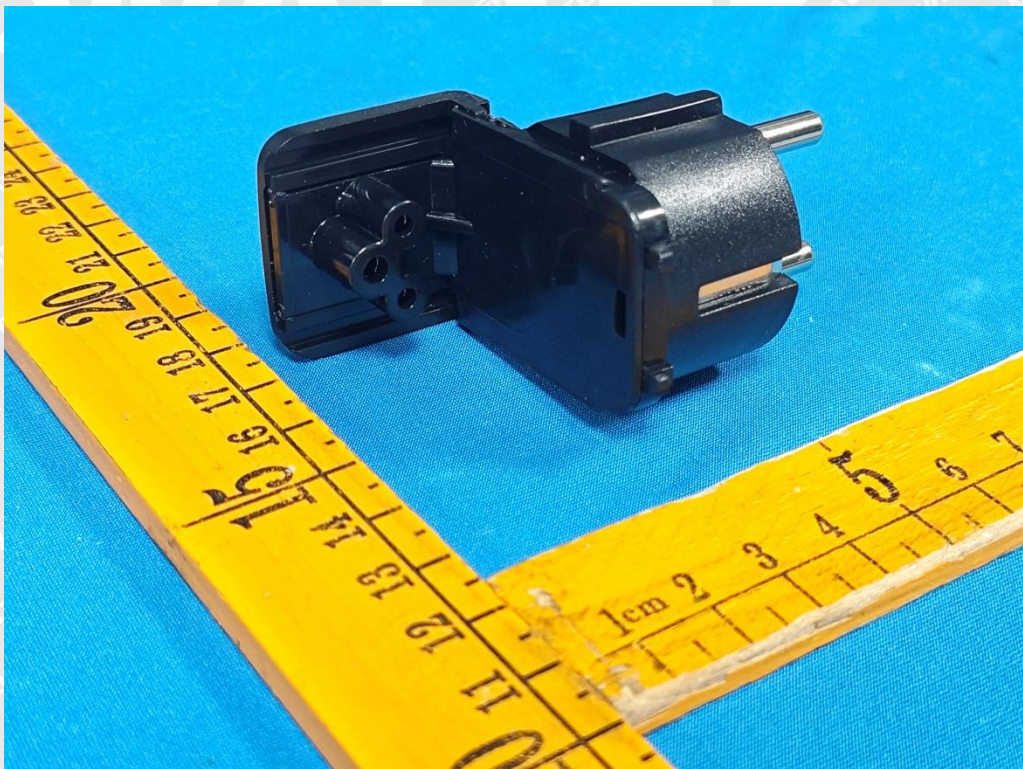


Photo 2

====End of Report====