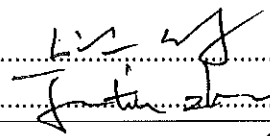
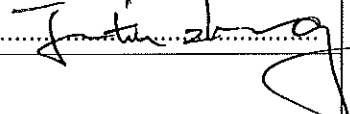


TEST REPORT IEC 60884-1 Plugs and socket-outlets for household and similar purposes Part 1: General requirements	
Report Reference No.	151101885SHA-001
Date of issue	2015-12-08
Total number of pages	12
Testing Laboratory	INTERTEK TESTING SERVICES Shanghai.
Address	Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, China
Applicant's name	GlobTek, Inc
Address	186 Veterans Dr. Northvale, NJ 07647 USA
Test specification:	
Standard	IEC 60884-1:2002 (3 rd edition) + A1:2006
Test procedure	Testing (see summary of testing on page 3)
Non-standard test method	N/A
Test Report Form No.	IEC60884_1C
Test Report Form(s) Originator	IMQ
Master TRF	Dated 2006-10
Copyright © 2006 IEC System for Conformity Testing and Certification of Electrical Equipment (IECEE), Geneva, Switzerland. All rights reserved. This publication may be reproduced in whole or in part for non-commercial purposes as long as the IECEE is acknowledged as copyright owner and source of the material. IECEE takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context. If this Test Report Form is used by non-IECEE members, the IECEE/IEC logo and the reference to the CB Scheme procedure shall be removed. This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.	
Test item description	Integrated plug of power supply
Trade Mark	GlobTek
Manufacturer	Same as applicant
Model/Type reference	Q-AR for plug
Ratings	10A 250V~

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

Testing procedure and testing location:	
☒ Testing Laboratory: Testing location/ address.....:	INTERTEK TESTING SERVICES Shanghai. Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, China
☐ Associated Test Laboratory: Testing location/ address.....:	
Tested by (name + signature).....:	Lillian Song 
Approved by (name + signature) ..:	Justin Zhang 
☐ Testing procedure: TMP Tested by (name + signature).....: _____ Approved by (name + signature) ..: _____ Testing location/ address.....: _____	
☐ Testing procedure: WMT Tested by (name + signature).....: _____ Witnessed by (name + signature): _____ Approved by (name + signature) ..: _____ Testing location/ address.....: _____	
☐ Testing procedure: SMT Tested by (name + signature).....: _____ Approved by (name + signature) ..: _____ Supervised by (name + signature): _____ Testing location/ address.....: _____	
☐ Testing procedure: RMT Tested by (name + signature).....: _____ Approved by (name + signature) ..: _____ Supervised by (name + signature): _____ Testing location/ address.....: _____	

Summary of testing:

We conclude that the products described in this test report comply with the relevant clauses according to the testing results on the submitted samples.

Tests performed (name of test and test clause):

Only clause 9, 25.2, 25.3, 28.1 of IEC 60884-1:2002 (Third Edition) + A1:2006.

Testing location:

Intertek Testing Services Shanghai

Summary of compliance with National Differences:

The Argentina standard IRAM 2063:2009 was also considered for above clauses, details see Annex.

Copy of marking plate:

N/A

Test item particulars	
Standard Sheet	Figure 2 of IRAM 2063
Rated current (A) / Rated voltage (V)	10A 250V~
Degree of protection against access to hazardous parts and against harmful ingress of solid foreign objects	IP2X (with end appliance)
Degree of protection against harmful ingress of water	IPX0 (with end appliance)
Provision for earthing	without earthing contact
Method of connecting the cable	N/A
Type of cable	N/A
Nominal cross-sectional areas (mm ²)	N/A
Type of terminals	N/A
Type of connections	N/A
Socket-outlets:	
Degree of protection against electric shock ...	~~normal protection / increased protection~~
Existence of shutters	~~without shutters / with shutters~~
Method of application / mounting of the socket-outlet	~~surface type / flush type / semi-flush type / panel type / architrave type / portable type / table type (single/multiple) / floor recessed type / appliance type~~
Method of installation	~~design A / design B~~
Intended for circuits where	~~a single earthing circuit provides protective earthing / electrical noise immunity is desired for the earthing circuit~~
Plugs:	
Class of equipment	II
Possible test case verdicts:	
- test case does not apply to the test object.....	N/A
- test object does meet the requirement	P (Pass)
- test object does not meet the requirement	F (Fail)
Testing	
Date of receipt of test item	2015-11-23
Date (s) of performance of tests	2015-11-23~2015-12-08
General remarks:	
The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory. "(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report. Throughout this report a comma is used as the decimal separator.	
Factory information:	
GlobTek (Suzhou) Co., Ltd Building 4, No. 76 JinLing East Road, Suzhou Industrial Park, Suzhou, JiangSu, 215021, China	

General product information:

Integrated plug of power supply, 10A 250V~, Class II, IP20.

The integrated plug can be used in below power supply.

GT-41052 series, GT-41060 series, GT-41062 series, GT-41076 series, GT-41078 series, GT-41080 series, GT-41081 series, GT-41131 series, GT-41134 series, GT-41135 series, GT-43007 series, GT-46060 series, GT-46180 series, GTM41060 series, GTM41061 series, GTM41076 series, GTM41078 series, GTM41080 series, GTM41134 series, GTM96060 series, GTM43033 series, GTM46101 series, GT-46120 series, GT-46401 series, GT-46180 series, GTM96180 series.

Remarks:

1. The samples for each group of testing were selected randomly from the samples provided by the manufacturer.
2. The test results reported in this test report shall refer only to the sample actually tested and shall not refer or be deemed to refer to bulk from which such a sample may be said to have been obtained.
3. Determination of the test result includes consideration of measurement uncertainty from the test equipment and methods.
4. We conclude that the product(s) presented in this test report complies (comply) with the standard according to the test results on the submitted samples.

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
9	CHECKING OF DIMENSIONS		P
9.1	Accessories and surface-type mounting boxes comply with the appropriate standard sheets and corresponding gauges, if any	See Annex B	P
	Insertion of plugs into fixed or portable socket-outlets ensured by their compliance with the relevant standard sheets		P
	Compliance checked by measurement and by means of gauges with manufacturing tolerances as shown in table 2	See Annex B	P
9.2	It is not possible to engage a plug with:		P
	- a socket-outlet having a higher voltage rating or a lower current rating;		P
	- a socket-outlet with a different number of live poles (exception admitted provided that no dangerous situation can arise);		P
	- a socket-outlet with earthing contact (plug for class 0 equipment).		N/A
	Engagement of a plug for class 0 or class I equipment with a socket-outlet designed to accept plugs for class II equipment, not possible		N/A
	Impossibility of insertion checked by applying a gauge, for 1 min, with a force of:		P
	- 150 N (rated current $\leq 16A$);		P
	- 250 N (rated current $> 16A$)		N/A
	Accessories with elastomeric or thermoplastic material: test carried out at $(35 \pm 2) ^\circ C$		P
9.3	Deviations from standard sheets made only if they provide technical advantage and do not affect the purpose and safety of accessories complying with standard sheet		N/A
25	RESISTANCE TO HEAT		P
25.2	Parts of insulating material necessary to retain current-carrying parts and parts of the earthing circuit in position, as well as parts of the front surface zone, 2 mm wide, surrounding the phase and neutral pin entry holes: ball-pressure test at $(125 \pm 2) ^\circ C$ for 1 h	See appended table 25.2	P
25.3	Parts of insulating material 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)	See appended table 25.3	N/A
28	RESISTANCE OF INSULATING MATERIAL TO ABNORMAL HEAT, TO FIRE AND TO TRACKING		P

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
28.1	Resistance to abnormal heat and to fire		P
28.1.1	Glow-wire test according to IEC 60695-2-10 and IEC 60695-2-11	See appended table 28.1.1	P
28.1.2	Plugs with pins provided with insulating sleeves:		N/A
	Test temperature maintained for 3 h by means of the apparatus shown in figure 40 at $(120 \pm 5) ^\circ\text{C}$ / $(180 \pm 5) ^\circ\text{C}$		—
	Impact test according to sub-clause 30.4 (mass 100 g, height 100 mm, 4 impacts): no cracks of the insulating sleeves		N/A

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict

25.2	TABLE: ball pressure test of insulating materials		P
	allowed impression diameter (mm)	≤ 2 mm	—
part under test		test temperature (°C)	impression diameter (mm)
Enclosure of plug		125	1,4
supplementary information:125±2			

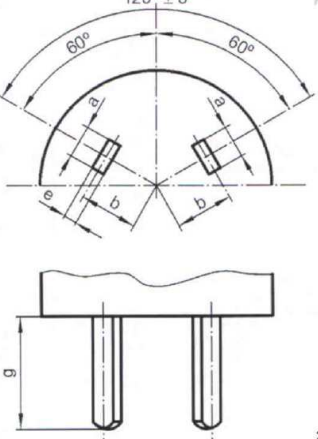
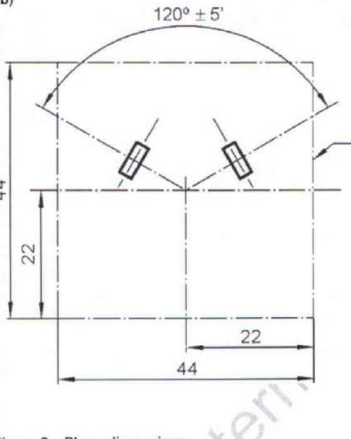
25.3	TABLE: ball pressure test of insulating materials		N/A
	allowed impression diameter (mm)	≤ 2 mm	—
part under test		test temperature (°C) ⁽¹⁾	impression diameter (mm)
supplementary information: ⁽¹⁾ (70 ± 2) °C / (40 ± 2) °C + highest temperature rise determined during the test of clause 19			

28.1.1	TABLE: glow-wire test					P
part under test		material designation	test temperature (°C)	visible flame and sustained glowing (Y/N)	flame and glowing extinction time	ignition of the tissue paper (Y/N)
Enclosure of plug		-	750	N	-	N
supplementary information:						

Annex A: Additional requirements and tests for plugs according to IRAM 2063:2009

IRAM 2063			
Cl.	Requirement – Test	Result	Verdict
9	DIMENSIONAL VERIFICATION		
9.1	Plugs must comply with specified in clause 9 of IRAM-NM 60884-1. Paragraph 9.3 of IRAM-NM 60884-1 is not applicable.		P
9.2	Plugs dimensions, must be the one indicated in fig.2 and in Table 1.		P
9.2.1	Width, long and thickness of pins must be verifies by measuring.		P
	Dimensions must be verified with measuring instruments which allow reading 0.01mm.		P
	Using of calibrators of pass type and non-pass type is accepted only as an optional way of controlling on the manufacturing process stages, being independent for each dimension.		P
9.2.2	Pins dispositions are verified through the outlet pattern of the established dimensions in IRAM 2073.		P
9.3	For the established tests in IRAM-NM 60884-1, the pattern outlet of frontal flat surface is used, which dimensions are specified in IRAM 2073, the contact plates must have an adequate elasticity in accordance to the specified in clause 22 of IRAM-NM 60884-1.		N/A
9.4	The connection pins ends must be lowered in appropriate way, in order to facilitate the insertion of the pins in the contact plates.		P
9.5	In case that the plugs pins are provided with insulating sheaths, this sheaths dimensions must comply with the specified in fig.7 of IRAM 2073.		N/A
25	HEAT RESISTANCE		
	Plugs must comply with the specified in clause 25 of IRAM-NM 60884-1.		P
28	RESISTANCE TO ABNORMAL HEAT, FIRE AND TRACKING		
	Plugs must comply with the specified in clause 28 of IRAM-NM 60884-1.		P

ANNEX B

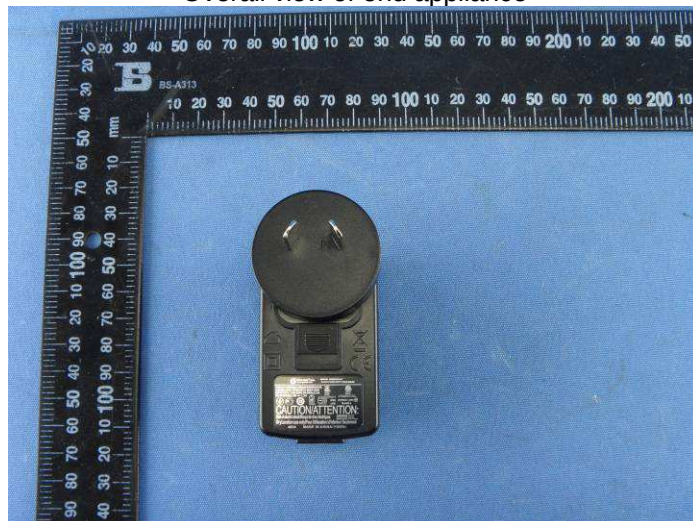
Plugs dimension according to IRAM 2063														
9.2	DIMENSIONS													
	Compliance with appropriate Standard Sheet checked by means of gauges and by measurement, see below													
	STANDARD SHEET IRAM 2063													
	Table 1 – Plugs dimensions (mm) <table border="1"> <thead> <tr> <th>Ficha</th><th>a</th><th>b</th><th>e</th><th>g</th></tr> </thead> <tbody> <tr> <td>10 A</td><td>6,25 ± 0,10</td><td>7,92</td><td>1,55 ± 0,07</td><td>18,2 ± 0,2</td></tr> </tbody> </table> Minimum dimensions of external perimeter  References A= 8 mm Refine dashed line Only the minimum of construction 120° ± 5'   2a) Figure 2 – Plugs dimensions				Ficha	a	b	e	g	10 A	6,25 ± 0,10	7,92	1,55 ± 0,07	18,2 ± 0,2
Ficha	a	b	e	g										
10 A	6,25 ± 0,10	7,92	1,55 ± 0,07	18,2 ± 0,2										
	GAUGE Caliper “pass” and “don’t pass”													
	P													

9.2	Plug dimension						
Items	Rating	a	b	E	g	A	verdict
Measuring result	10A	6,25±0,10	7,92	1,55±0,07	18,2±0,2	Min. 8	
		6,26	7,92	1,52	18,38	11,34	P
Length of insulating sheath from face of the plug							
Required (mm)				Measuring result (mm)			
9.0 ⁺⁰ _{-0,5}				N/A			
Maximum dimensions of external perimeter (mm)							
Required (mm)				Measuring result (mm)			
Max. 44				41,50			
Max. 22				20,75			

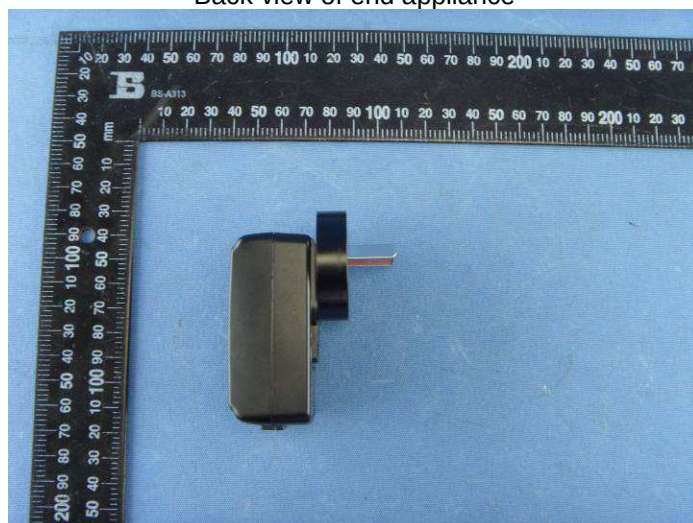
Photos:



Overall view of end appliance



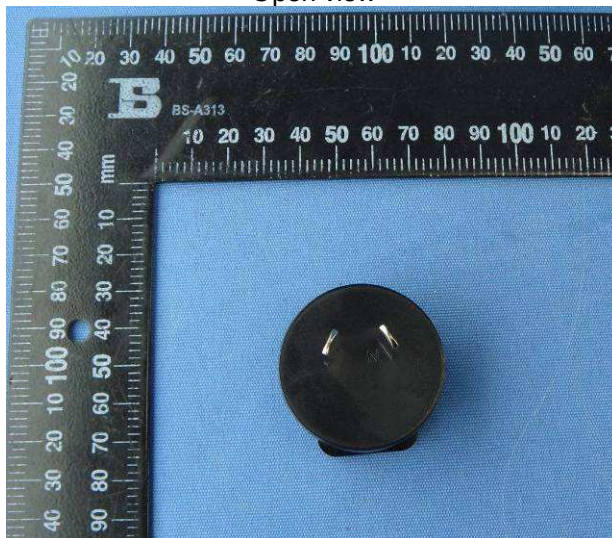
Back view of end appliance



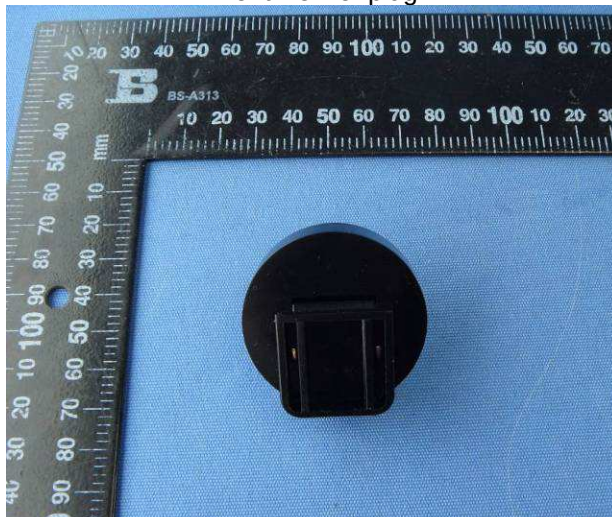
Side view of end appliance



Open view



Front view of plug



Back view of plug