

Test Report issued under the responsibility of:



TEST REPORT IEC 60601-1-11 MEDICAL ELECTRICAL EQUIPMENT -

Part 1-11: General requirements for basic safety and essential performance – Collateral Standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment

Report Number. 200402485SHA-003

Date of issue 2020-06-09

Total number of pages...... 32

Name of Testing Laboratory preparing the Report....:

Intertek Testing Services Shanghai

Applicant's name...... GlobTek, Inc.

Test specification:

IEC 60601-1:2012 (Third Edition) + A1:2012

Test procedure: CB Scheme

Non-standard test method.....: N/A

Test Report Form No...... IEC60601 1 11C

Test Report Form(s) Originator....: UL(US)

Master TRF 2015-03

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Report No. 200402485SHA-003

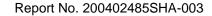


Test	item description::	Medica	al Power Supply		
Trade Mark: Glo			pbTek, [®] Inc.		
Manufacturer: Same a		as applicant			
Mod	el/Type reference:	GT*86		eneral product information for	
Ratir	ngs::	Input:	100-240V~, 50-60Hz or	50/60Hz, 0.3A;	
		Output	:: 5.95-24Vdc, Max.2.0A,	Max.12W	
Resp	oonsible Testing Laboratory (as a	pplicat	ole), testing procedure	and testing location(s):	
	CB Testing Laboratory:		Intertek Testing Service	s Shanghai	
Testi	ing location/ address	:	Building No. 86, 1198 Q Shanghai, China	inzhou Road (North), 200233	
	Associated CB Testing Laborato	ry:			
Testi	ing location/ address	:			
Test	ed by (name, function, signature)	:	Yann Yan (Engineer)		
Appr	oved by (name, function, signatu	ıre):	Larry Zhong (Mandated Reviewer)		
	Testing procedure: CTF Stage 1:	•			
Testi	ing location/ address	:			
Test	ed by (name, function, signature)	:			
Appr	oved by (name, function, signatu	ıre):			
	Tank's service and the OTE Office O				
<u> </u>	Testing procedure: CTF Stage 2:				
	ing location/ address				
	ed by (name + signature)				
Witn	essed by (name, function, signat	ure) .:			
Appr	roved by (name, function, signatu	ıre):			
	Testing procedure: CTF Stage 3				
	Testing procedure: CTF Stage 4				
Test	ing location/ address				
162[ing location, address				
Tested by (name, function, signature):		:			
Witn	essed by (name, function, signat	ure) .:			



Page 3 of 32 Report No. 200402485SHA-003

_	-
Approved by (name, function, signature):	
Supervised by (name, function, signature) :	





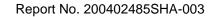
List of Attachments (including a total number of pages in each attachment):				
, , ,				
Attachment 1: Canada national differences (2 pages)				
Summary of testing:				
Tests performed (name of test and test	Testing location:			
clause):	Intertek Testing Services Shanghai			
4.2.2 Environmental condition test of transport and	Building No. 86, 1198 Qinzhou Road (North),			
storage between uses	Shanghai 200233, China			
4.2.3.1 Environmental operating condition test				
10.1.2 a) Shock test				
10.1.3 b) Vibration test				
Summary of compliance with National Differences:				
List of countries addressed				
National differences for Canada according to CAN/C	CSA-C22.2 No. 60601-1-11:15, Ed 2.			
The requirements of USA have been checked and found to include no national differences from the IEC 60601-1-11:2015.				
☐ The product fulfils the requirements of IEC 60	0601-1-11: 2015 .			

Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

See IEC 60601-1 Test Report No. 200402485SHA-001.







Test item particulars:				
Classification of installation and use	Direct plug-in for power adapter model.			
Intended use (Including type of patient, application location):	PSU (external power adapter or internal power supply board)			
Mode of operation:	Continuous			
Supply Connection	Direct plug-in for power adapter model.			
Accessories and detachable parts included:	None			
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:	2020-04-23			
Date (s) of performance of tests:	2020-04-23 to 2020-06-08			
- Normal condition: N.C.	- Single fault condition S.F.C.			
- Means of Operator protection: MOOP	- Means of Patient protection: MOPP			
General remarks:				
"(See Enclosure #)" refers to additional information ap "(See appended table)" refers to a table appended to the	ne report.			
This report shall not be reproduced except in full withoutest equipment must be kept on file and available for rein the attachments to this report.	ut the written approval of the testing laboratory. List of eview. Additional test data and/or information provided			
Throughout this report a ☐ comma / ☒ point is u This Test Report Form is intended for the evaluatio electrical systems used in the home healthcare env This Test Report Form can be used to complement	on of medical electrical equipment and medical vironment in accordance with IEC 60601-1-11.			
Manufacturer's Declaration per sub-clause 4.2.5 of	IECEE 02:			
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided	☐ Not applicable			
When differences exist; they shall be identified in the General product information section.				
Name and address of factory (ies):	See IEC 60601-1 Test Report No. 200402485SHA-001.			



Page 6 of 32

tal Quality. Assured.	Page 6 of 32	Report No. 200402485SHA-003
General product informa	ation:	
See IEC 60601-1 Test Re	eport No. 200402485SHA-001.	



	IEC 60601-1-11	,	1
Clause	Requirement + Test	Result - Remark	Verdict
4	GENERAL REQUIREMENTS		
4.1	Characteristics of SUPPLY MAINS specified in 4.10.2 of Part 1 applied, except ME EQUIPMENT or ME SYSTEMS intended for HOME HEALTHCARE ENVIRONMENT complied with the following:		Р
	- SUPPLY MAINS in the HOME HEALTHCARE ENVIRONMENT did not exceed 110 % or was not below 85 % of NOMINAL voltage between any of the conductors of the system or between any of these conductors and earth (% V)	See appended Table 4.11 in IEC 60601-1 Test Report 200402485SHA-001.	_
	- For ME EQUIPMENT OR ME SYSTEMS intended to actively keep alive or resuscitate a PATIENT, SUPPLY MAINS in the HOME HEALTHCARE ENVIRONMENT did not exceed 110 % or was not below 80 % of NOMINAL voltage between any of the conductors of the system or between any of these conductors and earth (% V		_
	- RATED range of NOMINAL voltage did include at least 12.4 V to 15.1 V for operation from a 12 V dc supply mains	No such condition	N/A
	- RATED range of NOMINAL voltage did include at least 24.8 V to 30.3 V for operation from a 12 V dc supply mains	No such condition	N/A
	The equipment maintained BASIC SAFETY and ESSENTIAL PERFORMANCE during and following a 30 s dip to 10 V from a 12 V dc SUPPLY MAINS	No such condition	N/A
	The equipment maintained BASIC SAFETY and ESSENTIAL PERFORMANCE during and following a 30 s dip to 20 V from a 24 V dc SUPPLY MAINS	No such condition	N/A
4.2.2	Environmental conditions of transport and storaginstructions for use	ge between uses, indicated in	Р
	ME EQUIPMENT, except STATIONARY EQUIPMENT, after being removed from its protective packaging, and subsequently between uses, operated within its specified NORMAL USE after transport or storage in the specified environmental conditions		Р
	temperature range:-25 °C to + 5 °C	-20°C to 60°C 5 % to 95 %RH	N/A
	temperature range:+5 °C to +35 °C at a non- condensing relative humidity up to 90 %	0 /0 tO 90 /0NH	N/A
	temperature range: >35 °C to 70 °C at a water vapour pressure up to 50 hPa		N/A



IEC 60601-1-11			
Clause	Requirement + Test	Result - Remark	Verdict
	For more restricted range of environmental transport and storage conditions between uses, the environmental conditions are specified		N/A
	- Justified in the RISK MANAGEMENT FILE		N/A
	- Marked on the ME EQUIPMENT		N/A
	When not practicable, the more restricted range is disclosed in the instructions for use		N/A
	 Marked on the carrying case when the instructions for use indicate the ME EQUIPMENT is intended to be transported or stored in a carrying case between uses 		N/A
	Symbol 5.3.5 (ISO 7000-0534), 5.3.6 (ISO 7000-0533), or 5.3.7 (ISO 7000-0632) of ISO 15223-1:2012 used to mark temperature range		N/A
	Symbol 5.3.8 (ISO 7000-2620) of ISO 15223-1:2012 used to mark humidity range		N/A
	Symbol 5.3.9 (ISO 7000-2621) of ISO 15223-1:2012 used to mark atmospheric pressure range		N/A
	Where ME EQUIPMENT used different marking for conditions of transport and storage between uses, continuous operating conditions and transient operating conditions, markings accompanied by supplementary markings except where the respective applicability was obvious		N/A
	Environmental transport and storage test		Р
	a) ME EQUIPMENT prepared for transportation or storage according to instructions for use		Р
	b) ME EQUIPMENT exposed to its lowest specified environmental transport and storage conditions	-20 °C	Р
	(temperature -4 °C) (°C)		
	 For at least 16 h or, ensure ME EQUIPMENT reached THERMAL STABILITY for at least 2 h 	16h	Р
	c) Then ME EQUIPMENT exposed to 34 °C ±4 °C and 90 % - 0% + 6% relative humidity until the test chamber reached equilibrium and held for at least 2 hours. The transition from low to high temperature was made slowly enough to provide a noncondensing environment.	34°C and 90% relative humidity	P
	d) ME EQUIPMENT exposed to its highest specified environmental transport and storage conditions, not requiring a water vapour pressure greater than 50 hPa (temperature °°C); (°C, ± %):	60 °C,50hpa	Р



	IEC 60601-1-11			
Clause	Requirement + Test	Result - Remark	Verdict	
	 For at least 16 h or, ensured ME EQUIPMENT reached THERMAL STABILITY for at least 2 h 		Р	
	e) At the end of this conditioning period, ME EQUIPMENT allowed to return and stabilize at the operating conditions of NORMAL USE		Р	
	f) ME EQUIPMENT evaluated to its specifications and ensured it provides BASIC SAFETY and ESSENTIAL PERFORMANCE		Р	
4.2.3.1	Environmental operating conditions - Continuous	operating conditions	Р	
	Instructions for use indicated permissible environmental operating conditions of the ME EQUIPMENT		Р	
	ME EQUIPMENT complied with its specifications and all requirements of the standard when operated in NORMAL USE within temperature + 5 °C to +40 °C,	0°C to 40°C 5 % to 95 %RH	N/A	
	Relative humidity range of 15 % to 90%, non- condensing, but not requiring a water vapour partial pressure greater than 50 hPa; and		N/A	
	An atmospheric pressure range of 700 hPa to 1060 hPa		Р	
	For more restricted range of environmental operating conditions		N/A	
	- justified in the risk management file;		N/A	
	-marked on the equipment; or were nor practical in the instructions for use		N/A	
	 Marked on the carrying case when the instructions for use indicate the ME EQUIPMENT is intended to be operated in a carrying case 		N/A	
	Symbol 5.3.5 (ISO 7000-0534), 5.3.6 (ISO 7000-0533), or 5.3.7 (ISO 7000-0632) of ISO 15223-1:2012 used to mark temperature range		N/A	
	Symbol 5.3.8 (ISO 7000-2620) of ISO 15223-1:2012 used to mark humidity range		N/A	
	Symbol 5.3.9 (ISO 7000-2621) of ISO 15223-1:2012 used to mark atmospheric pressure range		N/A	
	Where ME EQUIPMENT used different marking for conditions of continuous operating conditions and transient operating conditions, markings accompanied by supplementary markings		N/A	
	Environmental operating conditions test		Р	
	a) ME EQUIPMENT was set up for operation according to INTENDED USE		Р	



IEC 60601-1-11				
Clause	Requirement + Test	Result - Remark	Verdict	
	b) ME EQUIPMENT exposed to 20 °C ± 4 °C for at least 6 h or, ensured ME EQUIPMENT reached THERMAL STABILITY for at least 2 h, (h)	20°C, 6h	Р	
	c) ME EQUIPMENT evaluated to its specifications and ensured it continued to provide BASIC SAFETY and ESSENTIAL PERFORMANCE		Р	
	d) ME EQUIPMENT evaluated to its specifications and ensured it continued to provide BASIC SAFETY and ESSENTIAL PERFORMANCE while at the lowest specified atmospheric pressure.		Р	
	e) ME EQUIPMENT evaluated to its specifications and ensured it continued to provide BASIC SAFETY and ESSENTIAL PERFORMANCE while at the highest specified atmospheric pressure.		Р	
	f) Pressure in chamber relieved		Р	
	g) ME EQUIPMENT cooled to its lowest specified environmental operating conditions		Р	
	h) ME EQUIPMENT held at lowest specified environmental operating conditions for at least 6 h or, ensured the ME EQUIPMENT reached THERMAL STABILITY for at least 2 h:	6h	Р	
	i) ME EQUIPMENT met its specifications and BASIC SAFETY and ESSENTIAL PERFORMANCE		Р	
	j) ME EQUIPMENT warmed to its highest specified continuous environmental operating conditions		Р	
	k) ME EQUIPMENT held the conditions of j) for at least 6 h or, ensured the ME EQUIPMENT reached THERMAL STABILITY for at least 2 h	6h	Р	
	I) ME EQUIPMENT met its specifications and BASIC SAFETY and ESSENTIAL PERFORMANCE		Р	
4.2.3.2	Environmental shock to TRANSIT-OPERABLE EQUIPM	ENT	N/A	
	TRANSIT-OPERABLE EQUIPMENT with a stated wider range of continuous environmental operation conditions maintained BASIC SAFETY and ESSENTIAL PERFORMANCE in the presence of condensation and thermal shock from rapid changes in environmental temperature and humidity during INTENDED USE when test in accordance with 4.2.3.2 a)-j).	Not Transit-operable EQUIPMENT	N/A	



IEC 60601-1-11			
Clause	Requirement + Test	Result - Remark	Verdict

5	GENERAL REQUIREMENTS FOR TESTING ME EQU	JIPMENT	Р
	In addition to the requirements of 5.9.2.1 of with IEC 60 determined as indicated below:	0601-1 standard, accessibility	Р
	ACCESSIBLE parts of ME EQUIPMENT identified by inspection and, when necessary, by testing		Р
	When in doubt, an ACCESSIBLE PART of ME EQUIPMENT determined by a test with the small finger probe of Fig 1, applied in a bent or straight position as follows:		Р
	 for all positions of the ME EQUIPMENT operating in NORMAL USE 		Р
	 after opening ACCESS COVERS and removal of parts, including lamps, fuses, and fuse holders when: 	No opening	N/A
	i) the ACCESS COVERS could be opened without the use of a TOOL, or		N/A
	ii) the instructions for use instructed a LAY OPERATOR to open the relevant ACCESS COVER		N/A

6	CLASSIFICATION OF ME EQUIPMENT AND ME SYSTEMS		Р
	ME EQUIPMENT intended for HOME HEALTHCARE ENVIRONMENT classified as follows, except for PERMANENTLY INSTALLED EQUIPMENT and as required by Part 1, Sub-clause 6.2:		Ф
	- CLASS II Or INTERNALLY POWERED	CLASS II	Р
	- Not provided with a FUNCTIONAL EARTH TERMINAL		Р
	- When equipped with APPLIED PARTS, they are TYPE BF or CF:	No APPLIED PARTS	N/A

7	ME EQUIPMENT IDENTIFICATION, MARKING ANI	D DOCUMENTS	Р
7.1	USABILITY of identification, marking, and ACCOMPANYING DOCUMENTS intended for LAY OPERATOR or LAY RESPONSIBLE ORGANIZATION evaluated by an OPERATOR whose PROFILE included minimum eight years of education	USABILITY ENGINEERING should be considered in end-product	N/A
	ME EQUIPMENT and ME SYSTEMS intended for HOME HEALTHCARE ENVIRONMENT are simple to use and do not require referencing complex ACCOMPANYING DOCUMENTS		N/A
7.2	In addition to requirements of 7.2.9 of the general standard, the carrying case provided some or all of the ingress protection against water or particulate matter, The ENCLOSURE is marked with the safety sign ISO 7010-W001 and "keep dry" or	IP20	N/A



IEC 60601-1-11			
Clause	Requirement + Test	Result - Remark	Verdict
	Symbol ISO 15223-1:2012, 5.3.4 (ISO 7000-0626)		N/A
	A carrying case marked with degree of protection	No carrying case	N/A
	Carrying case inspected, and tests and criteria of 7.1.2 and 7.1.3 of Part 1 applied:	No carrying case	N/A
7.3	ACCOMPANYING DOCUMENTS		Р
7.3.1	ACCOMPANYING DOCUMENTS indicate the LAY OPERATOR OR LAY RESPONSIBLE ORGANIZATION should contact the MANUFACTURER OR MANUFACTURER'S representative on the following issues:	Accompany documents are provided for some critical issue like technical data, safety warnings, necessary information to set up, but further evaluation is needed on end-product level.	P
	Assistance in setting up, using, or maintaining the ME EQUIPMENT or ME SYSTEM when needed, or		Р
	- To report unexpected operation or events		Р
	ACCOMPANYING DOCUMENTS include a postal address and either a phone number or web address for the LAY OPERATOR OR LAY RESPONSIBLE ORGANIZATION to contact the MANUFACTURER OR MANUFACTURER'S representative		Р
7.3.2	ACCOMPANYING DOCUMENTS include necessary details for healthcare professional to brief the LAY OPERATOR OR LAY RESPONSIBLE ORGANIZATION on any known contraindication(s) to the use of ME EQUIPMENT OR ME SYSTEM and any precautions to be taken, including the following:	Accompany documents are provided for some critical issue like technical data, safety warnings, necessary information to set up, but further evaluation is needed on end-product level.	N/A
	Precautions to be taken in the event of changes in the performance of ME EQUIPMENT OR ME SYSTEM		N/A
	 Precautions to be taken regarding the exposure of the ME EQUIPMENT or ME SYSTEM to reasonably foreseeable environmental conditions 		N/A
	 Adequate information regarding medicinal substances that ME EQUIPMENT is designed to administer, including any limitations in the choice of substances to be delivered as indicated below: 		N/A
	 Information on any medicinal substances or human blood derivatives incorporated into the ME EQUIPMENT or ACCESSORIES as an integral part; and 		N/A
	The degree of accuracy claimed for ME EQUIPMENT with a measuring FUNCTION		N/A
7.4	Instructions for use		Р



	IEC 60601-1-11			
Clause	Requirement + Test	Result - Remark	Verdict	
7.4.1	Nature of the HAZARD, likely consequences that could occur if the advice is not followed, and precautions for reducing the RISK described in instructions for use corresponding to each warning and safety sign	Acceptability of residual risk of power supply must be determined as part of the end-product.	N/A	
	The instructions for use address the following issues,	as applicable:	N/A	
	 Strangulation due to cables and hoses, particularly due to excessive length 		N/A	
	- Inhalation or swallowing of small parts		N/A	
	 Potential allergic reactions to accessible materials used in the ME EQUIPMENT 		N/A	
	- Contact injuries		N/A	
	The instructions for use include warnings to the effect that the following actions could be unsafe as applicable:		N/A	
	 Use of ACCESSORIES, detachable parts, and materials not described in the instructions for use (see 7.9.2.14 of Part 1) 		N/A	
	 Interconnection of this equipment to other equipment not described in the instructions for use (see 16.2 c) indent 9) of Part 1) 		N/A	
	- Modification of the equipment		N/A	
	 Use of the ME EQUIPMENT outside its carrying case when some part of the protection required by this standard is provided by that carrying case (see 8.3.1 and 10.1) 		N/A	
7.4.2	When BASIC SAFETY OR ESSENTIAL PERFORMANCE dependents on the INTERNAL ELECTRICAL POWER SOURCE, the instructions for use describes the following:	No internal electrical power source	N/A	
	- Typical operation time or number of procedures :		N/A	
	Typical service life of the INTERNAL ELECTRICAL POWER SOURCE; and:		N/A	
	Behaviour of ME EQUIPMENT while the rechargeable INTERNAL ELECTRICAL POWER SOURCE is charging:		N/A	
7.4.3	Instructions for use for ME EQUIPMENT intended for use by a LAY OPERATOR include easily understood diagrams, illustrations, or photographs of the fully assembled and ready-to-operate ME EQUIPMENT including all controls, visual INFORMATION SIGNALS, and indicators provided (see 7.1)	Necessary information to set up was provided in the instruction. USABILITY ENGINEERING should be considered in end product	Р	
7.4.4	Additional requirements for ME EQUIPMENT start-up	PROCEDURE:	N/A	



	IEC 60601-1-11				
Clause	Requirement + Test	Result - Remark	Verdict		
	 Easily understood diagrams, illustrations, or photographs showing proper connection of the PATIENT to the ME EQUIPMENT, ACCESSORIES and other equipment (see 7.1) 	No connection to PATIENT	N/A		
	- the time from switching "ON" until the ME EQUIPMENT is ready for NORMAL USE, when it exceeds 15 s (see 15.4.4 of Part 1) (s):	No such feature.	N/A		
	-the time required for ME EQUIPMENT to warm from the minimum storage temperature between uses until it is ready for intended use; and:	No such conditions	N/A		
	-the time required for ME EQUIPMENT to cool from the maximum storage temperature between uses until it is ready for intended use; and:	No such conditions	N/A		
7.4.5	Instructions for use for ME EQUIPMENT intended for use by a LAY OPERATOR include a description of generally known conditions in the HOME HEALTHCARE ENVIRONMENT that can unacceptably affect the BASIC SAFETY and ESSENTIAL PERFORMANCE of the ME EQUIPMENT	Acceptability of residual risk of power supply must be determined as part of the end product.	N/A		
	The steps that can be taken by the LAY OPERATOR to identify and resolve the above conditions		N/A		
	At least the following issues are also included as app	licable	N/A		
	- The effects of lint, dust, light (including sunlight), etc.		N/A		
	- A list of known devices or other sources that can potentially cause interference problems		N/A		
	- The effects of degraded sensors and electrodes, or loosened electrodes, that can degrade performance or cause other problems		N/A		
	- The effects caused by pets, pests or children		N/A		
	The instructions for use explain the meaning of the IP classification marked on the ME EQUIPMENT, and on any carrying case provided with the ME EQUIPMENT as applicable		N/A		
7.4.6	Instructions for use include a troubleshooting guide for use when there are indications of a ME EQUIPMENT malfunction during start-up or operation	No need of such guide for power supply. But final determination in the end-product.	N/A		
	Troubleshooting guide discloses the necessary steps in the event of an TECHNICAL ALARM CONDITION		N/A		



IEC 60601-1-11			
Clause	Requirement + Test	Result - Remark	Verdict
7.4.7	Instructions for use for ME EQUIPMENT, ME SYSTEMS, parts, and ACCESSORIES for other than single use that can be contaminated by contact with PATIENT, body fluids, or expired gases, during INTENDED USE, indicate the following:	No cleaning, disinfection and sterilization required for power supply. But final determination in the end-product.	N/A
	 Frequency of cleaning, cleaning and disinfection, or cleaning and sterilization, as appropriate, for ME EQUIPMENT, ME SYSTEMS, parts, and ACCESSORIES used on the same PATIENT including rinsing methods, drying, handling, and storage between uses (see 8.1 and 8.2); and 		N/A
	 It is necessary to clean and disinfect, clean and sterilize the ME EQUIPMENT, ME SYSTEMS, parts, and ACCESSORIES for multiple PATIENT use between uses on different PATIENTS, including rinsing methods, drying, handling, and storage until re-use (see 8.1 and 8.2), or 		N/A
	 ME EQUIPMENT, ME SYSTEMS and ACCESSORIES require professional hygienic maintenance prior to re-use and provide contact details for the source of these services (see 7.5.2) 		N/A
7.4.8	Instructions for use include:		Р
	- EXPECTED SERVICE LIFE of the ME EQUIPMENT:	5 years	Р
	- EXPECTED SERVICE LIFE of parts and ACCESSORIES shipped with the ME EQUIPMENT:	5 years	Р
	SHELF LIFE of parts and ACCESSORIES shipped with ME EQUIPMENT when SHELF LIFE is less than the EXPECTED SERVICE LIFE:	No such parts	N/A
7.4.9	Instructions for use include:		N/A
	 A statement indicating the LAY RESPONSIBLE ORGANIZATION must contact its local authorities to determine the proper method of disposal of potentially bio hazardous parts and ACCESSORIES, as applicable 	Not applicable for power supply	N/A
7.4.10	Instructions for use includes the recommended placement of the remote parts of the DISTRIBUTED ALARM SYSTEM, when applicable, to ensure the OPERATOR can be notified at all times by an appropriate element of DISTRIBUTED ALARM SYSTEM within its specified range	Not applicable for power supply	N/A
7.5	Technical description	•	N/A
7.5.1	The technical description for PERMANENTLY INSTALLED CLASS I ME EQUIPMENT includes:	Not PERMANENTLY INSTALLED CLASS I ME EQUIPMENT	N/A



	IEC 60601-1-11			
Clause	Requirement + Test	Result - Remark	Verdict	
	 A warning indicating the ME EQUIPMENT installation, including a correct PROTECTIVE EARTH CONNECTION, must only be carried out by qualified SERVICE PERSONNEL 		N/A	
	- Specifications of the PERMANENTLY INSTALLED PROTECTIVE EARTH CONDUCTOR		N/A	
	A warning to verify the integrity of the external protective earthing system		N/A	
	A warning to connect and verify that the PROTECTIVE EARTH TERMINAL of the PERMANENTLY INSTALLED ME EQUIPMENT is connected to the external protective earthing system		N/A	
7.5.2	Technical description includes methods for cleaning and disinfection or cleaning and sterilization for ME EQUIPMENT and ACCESSORIES requiring professional hygienic maintenance prior to reuse (see 7.4.7):	No cleaning, disinfection and sterilization required for power supply. But final determination in the end product.	N/A	
	- Before and after any type of service PROCEDURE		N/A	
	When the ME EQUIPMENT is transferred to another PATIENT		N/A	

8	PROTECTION AGAINST EXCESSIVE TEMPERATURES AND OTHER HAZARDS		N/A
8.1	A LAY OPERATOR in the HOME HEALTHCARE ENVIRONMENT can perform the cleaning or cleaning and disinfection PROCESSES when intended (see 7.4.7)	No cleaning, disinfection and sterilization required for power supply. But final determination in the end product.	N/A
	USABILITY of each such PROCESS pertaining to a LAY OPERATOR was investigated by the USABILITY ENGINEERING PROCESS:		N/A
8.2	A LAY OPERATOR in the HOME HEALTHCARE ENVIRONMENT can perform the cleaning and sterilization PROCESSES when intended (see 7.4.7)	No sterilization required for power supply. But final determination in the end product.	N/A
	USABILITY of each such PROCESS pertaining to a LAY OPERATOR was investigated by the USABILITY ENGINEERING PROCESS		N/A
8.3	Additional requirements for ingress of water or particulate matter into ME EQUIPMENT and ME SYSTEMS		N/A
8.3.1	TRANSIT-OPERABLE, HANDHELD, and BODY-WORN ME EQUIPMENT maintained BASIC SAFETY and ESSENTIAL PERFORMANCE after undergoing the test of IEC 60529 for at least IP 22	Sample under evaluated is the power supplies only, not the ME equipment, shall be evaluated in final product.	N/A



	IEC 60601-1-11			
Clause	Requirement + Test	Result - Remark	Verdict	
	All other ME EQUIPMENT maintained BASIC SAFETY and ESSENTIAL PERFORMANCE after undergoing the test of IEC 60529 for at least IP21		N/A	
	For PORTABLE ME EQUIPMENT intended to be used only while in a carrying case, IP21 met with the ME EQUIPMENT in its the carrying case		N/A	
	Maintenance of BASIC SAFETY and ESSENTIAL PERFORMANCE VERIFIED		N/A	
8.3.2	ENCLOSURES of the non-ME EQUIPMENT parts of the ME SYSTEMS provide the degree of protection against harmful ingress of water or particulate matter equivalent to equipment complying with their respective IEC or ISO safety standards		N/A	
	Tests of IEC 60529:1989 conducted with the equipment placed in the least favourable position of NORMAL USE and the ENCLOSURES inspected		N/A	
8.4	Additional requirements for interruption of the pome EQUIPMENT and ME SYSTEM	ower supply/SUPPLY MAINS to	N/A	
	ME EQUIPMENT or ME SYSTEM with ESSENTIAL PERFORMANCE intended to actively keep alive or resuscitate a PATIENT maintained its ESSENTIAL PERFORMANCE for a sufficient time or for a sufficient number of PROCEDURES when loss or failure of SUPPLY MAINS or near depletion INTERNAL ELECTRICAL POWER SOURCE occurred		N/A	
	The time or number of PROCEDURES remaining allowed alternative life-supporting methods to be employed		N/A	
	Optionally, an INTERNAL ELECTRICAL POWER SOURCE was used to maintain ESSENTIAL PERFORMANCE:		N/A	
	Optionally, independent means were used to provide ESSENTIAL PERFORMANCE:		N/A	
	Instructions for use disclose the time or number of procedures available following a loss or failure of the SUPPLY MAINS or near depletion of the INTERNAL ELECTRICAL POWER SOURCE		N/A	
	Instructions for use describes the alternative life- supporting methods to be employed		N/A	
	The technical description describes methods that can be employed for longer periods		N/A	



	IEC 60601-1-11		
Clause	Requirement + Test	Result - Remark	Verdict
	ME EQUIPMENT or ME SYSTEM with ESSENTIAL PERFORMANCE intended to actively keep alive or resuscitate a PATIENT with no INTERNAL ELECTRICAL POWER SOURCE is equipped with an ALARM SYSTEM that includes at least a MEDIUM PRIORITY ALARM CONDITION indicating power failure		N/A
	ME EQUIPMENT or ME SYSTEM with ESSENTIAL PERFORMANCE intended to actively keep alive or resuscitate a PATIENT with an INTERNAL ELECTRICAL POWER SOURCE is equipped with an automatic switchover to INTERNAL ELECTRICAL POWER SOURCE		N/A
	ME EQUIPMENT OR ME SYSTEM with ESSENTIAL PERFORMANCE intended to actively keep alive or resuscitate a PATIENT with an INTERNAL ELECTRICAL POWER SOURCE is equipped with an ALARM SYSTEM that includes at least a MEDIUM PRIORITY TECHNICAL ALARM CONDITION indicating the INTERNAL ELECTRICAL POWER SOURCE is nearing insufficient remaining power for operation		N/A
	TECHNICAL ALARM CONDITION provides sufficient time or sufficient number of procedures for a LAY OPERATOR to act		N/A
	A TECHNICAL ALARM CONDITION of at least LOW PRIORITY remained active until the INTERNAL ELECTRICAL POWER SOURCE returned to a level above the ALARM LIMIT or until depleted		N/A
	It was not possible to inactivate the visual ALARM SIGNAL of this TECHNICAL ALARM CONDITION		N/A
	Functional tests conducted, and the RISK MANAGEMENT FILE inspected:		N/A
8.5	Additional requirements for an INTERNAL ELECTRIC	AL POWER SOURCE	N/A
8.5.1	ME EQUIPMENT provided with a means for the OPERATOR to determine state of the INTERNAL ELECTRICAL POWER SOURCE when the is essential for BASIC SAFETY OR ESSENTIAL PERFORMANCE OR to control risks associated with loss of ESSENTIAL PERFORMANCE	No INTERNAL ELECTRICAL POWER SOURCE	N/A
	State of INTERNAL ELECTRICAL POWER SOURCE indicated by:		N/A
	- number of PROCEDURES remaining;		N/A
	-remaining operating time;		N/A
	-percentage of the remaining operating time or energy; or		N/A
	-"fuel" gauge		N/A



	IEC 60601-1-11			
Clause	Requirement + Test	Result - Remark	Verdict	
	Instructions described method to determine state of INTERNAL ELECTRICAL POWER SOURCE		N/A	
8.5.2	Means, other than labelling, provided to prevent RISK of swallowing coin/button cells		N/A	
	Replacement of button cell require use of TOOL		N/A	

9	ACCURACY OF CONTROLS AND INSTRUMENTS AND PROTECTION AGAINST HAZARDOUS OUTPUTS	N/A
	The RISKS associated with USABILITY in the HOME HEALTHCARE ENVIRONMENT for OPERATOR PROFILES including a LAY OPERATOR when performing the USABILITY ENGINEERING PROCESS include at least the following considerations:	N/A
	- changes of controls	N/A
	- unexpected movement	N/A
	– potential for misconnection	N/A
	- potential for improper operation, or unsafe use	N/A
	potential for confusion as to current operational mode	N/A
	- change in the transfer of energy or substance	N/A
	- exposure to environmental conditions specified in this standard	N/A
	- exposure to biological materials, and	N/A
	- small parts being inhaled or swallowed	N/A
	Particular emphasis placed on the limited training of a LAY OPERATOR with respect to the ability to intervene and maintain BASIC SAFETY and ESSENTIAL PERFORMANCE.	N/A
	The MANUFACTURER'S USABILITY ENGINEERING PROCESS included the least capable intended LAY OPERATOR OF LAY RESPONSIBLE ORGANIZATION	N/A
	USABILITY ENGINEERING FILE inspected for compliance	N/A

10	CONSTRUCTION OF ME EQUIPMENT	Р
10.1	Additional requirements for mechanical strength	Р
10.1.1	Additions to Table 28 Mechanical strength test of the base standard, conducted as indicated in Table 1, Mechanical strength test applicability, non-TRANSIT-OPERABLE, and Table 2, Mechanical strength test applicability, TRANSIT-OPERABLE	Р



	IEC 60601-1-11		
Clause	Requirement + Test	Result - Remark	Verdict
10.1.2	ME EQUIPMENT, its parts, and mounting ACCESSORIES, intended for non-TRANSIT-OPERABLE use displayed adequate mechanical strength when subjected to mechanical stress caused by NORMAL USE, including pushing, impact, dropping and rough handling (not applicable to FIXED and STATIONARY ME EQUIPMENT)	e displayed ubjected to use, including andling (not	
	ME EQUIPMENT maintained BASIC SAFETY and ESSENTIA mechanical tests	AL PERFORMANCE after	Р
	OPERATOR-re-settable protective devices that can be reset without the use of a TOOL were, optionally, reset prior to the evaluation of BASIC SAFETY and ESSENTIAL PERFORMANCE		Р
	a) Shock tests conducted in accordance with IEC 60068-2-27:2008:	See Appended Table 10.1.2a	Р
	b) Broad-band random vibration tests conducted in accordance with IEC 60068-2-64:2008, using the following conditions:	See Appended Table 10.1.2b	Р
10.1.3	ME EQUIPMENT, parts, and mounting ACCESSORIES for TRANSIT-OPERABLE use displayed adequate mechanical strength when subjected to pushing, impact, dropping, rough handling, and rigorous conditions of PATIENT movement in NORMAL USE as well as transportation by trolleys, carts, road vehicles, trains, ships, and aircraft	EQUIPMENT ous USE as	N/A
	ME EQUIPMENT maintained BASIC SAFETY and ESSENTIAL PERFORMANCE after the following tests:		N/A
	a) Shock tests conducted on other than HAND-HELD ME EQUIPMENT, parts, and mounting ACCESSORIES in accordance with IEC 60068-2-27:2008		N/A
	1) Test type: Type 1		N/A
	2) Test type: Type 2		N/A
	b) Shock tests conducted on HAND-HELD ME EQUIPMENT, parts, and mounting ACCESSORIES in accordance with IEC 60068-2-27:2008		N/A
	1) Test type: Type 1		N/A
	2) Test type: Type 2		N/A
	c) Broad-band random vibration test conducted on ME EQUIPMENT, parts, and mounting ACCESSORIES in accordance with IEC 60068-2-64:2008:		N/A
	d) Free fall tests conducted on PORTABLE and MOBILE ME EQUIPMENT, parts, and mounting ACCESSORIES per IEC 60068-2-31:2008, using PROCEDURE 1:		N/A



	IEC 60601-1-11			
Clause	Requirement + Test	Result - Remark	Verdict	
	BASIC SAFETY and ESSENTIAL PERFORMANCE were maintained		N/A	
10.2	Controls of ME EQUIPMENT intended for use by a LAY OPERATORY that can affect BASIC SAFETY or ESSENTIAL PERFORMANCE protected from accidental or unauthorized changes or adjustments	No controls	N/A	
	OPERATOR-adjustable controls used for calibration include a means to prevent unintentional changes from the intended position		N/A	

11	PROTECTION AGAINST STRANGULATION OR ASPHYXIATION		N/A
	and asphyxiation of the PATIENT and others to an	The acceptability of risk of the power supply is determined as part of the end-product.	N/A
	EQUIPMENT and RISK MANAGEMENT FILE inspected:		N/A

12	ADDITIONAL REQUIREMENTS FOR ELECTROMAGNETIC EMISSIONS OF ME EQUIPMENT AND ME SYSTEMS		N/A
	HEALTHCARE ENVIRONMENT are Class B according to	Not applicable to component power supply system; to be determined in the end-product	N/A

13	ADDITIONAL REQUIREMENTS FOR ALARM SYSTEMS OF ME EQUIPMENT AND ME SYSTEMS		N/A
13.1	Each HIGH PRIORITY and MEDIUM PRIORITY ALARM CONDITION causes generation of auditory ALARM SIGNALS per IEC 60601-1-8:2006 and IEC 60601-1-8:2006/AMD1:2012, except when equipment is connected to a DISTRIBUTED ALARM SYSTEM intended for confirmed deliver of ALARM CONDITIONS including the generation of auditory ALARM SIGNALS per IEC 60601-1-8:2006 and IEC 60601-1-8:2006/AMD1:2012	The acceptability of risk of the power supply is determined as part of the end-product.	N/A
13.2	For ME EQUIPMENT and ME SYSTEMS intended to actively keep alive or resuscitate a PATIENT, reducing the auditory ALARM SIGNAL volume T below audible levels resulted in the following was not possible, except when the ALARM SYSTEM was connected to a DISTRIBUTED ALARM SYSTEM that included generation of auditory ALARM SIGNALS per IEC 60601-1-8:2006 and IEC 60601-1-8:2006/AMD1:2012		N/A



		IEC 60601-1-11		
Clause	Requirement + Test		Result - Remark	Verdict

4.2.2	RM RESULTS TABLE: Permissible environmental conditions of transport and storage, between uses, indicated in instructions for use		N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result – Remarks	Verdict
4.2			
4.3			
4.4			

4.2.3.1	RM RESULTS TABLE: Environmental operating conditions – Continuous operating conditions		N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result – Remarks	Verdict
4.2			
4.3			
4.4			

7.4.1	RM RESULTS TABLE: Addition	nal requirements for warning and safety notices	N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result – Remarks	Verdict
4.2			
4.3			
4.4			
5			
6.2			

7.4.5	RM RESULTS TABLE: : Additional requirements for operating instructions		N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph) Result - Remarks		Verdict
4.3			
4.4			
5			
6.2			



IEC 60601-1-11			
Clause	Requirement + Test	Result - Remark	Verdict

8.4	RM RESULTS TABLE: Additional requirements for interruption of power supply / supply mains to ME Equipment and ME Systems		N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.2			
4.3			
5			
6.2			
6.3			
6.4			
6.5			
6.6			
6.7			

10.1.2a	TABLE: Shock test (IEC 60068-2-27:2008), using the following conditions*:			
	Peak acceleration:	150 m/s2 (15 g)		
	Duration:	11 ms		
	Pulse shape:	half-sine		
	Number of shocks:	3 shocks per direction per axis (18 total)		

Direction Shock Applied	Axis Shock Applied	BASIC SAFETY and ESSENTIAL PERFORMANCE maintained? Yes/No	Remarks
Positive	X	Yes	The enclosure shows no
Negative	X	Yes	cracks and there is no damaged or loosing part inside
Positive	Y	Yes	the product after test.
Negative	Y	Yes	The EUT worked as normal and passed the dielectric
Positive	Z	Yes	strength test
Negative	Z	Yes	

*(NOTE 1 This represents Class 7M1 as described in IEC TR 60721-4-7:2001 [6])



	IEC 60601-1-11					
Clause	Requirement + Test	Result - Remark	Verdict			

10.1.2b	TABLE: Broad-band random vibration test (IEC 60068-2-64:2008) using the following conditions*:			
1	Acceleration amplitude:	: 10 Hz to 100 Hz: 1,0 (m/s²)²/Hz		
2	Acceleration amplitude:	: 100 Hz to 200 Hz: – 3 db per octave		
3	Acceleration amplitude:	200 Hz to 2 000 Hz: 0,5 (m/s²)²/Hz		
	Duration:	: 30 min per perpendicular axis (3 total)		

Perpendicular axis subjected to broad-band random vibration test	Acceleration amplitude	BASIC SAFETY and ESSENTIAL PERFORMANCE maintained? Yes/No	Remarks
1	1	Yes	The enclosure shows no
2	1	Yes	cracks and there is no damaged or loosing part
3	1	Yes	inside the product after test.
1	2	Yes	The EUT worked as normal and passed the dielectric
2	2	Yes	strength test.
3	2	Yes	
1	3	Yes	
2	3	Yes	
3	3	Yes	

^{* (}NOTE 2 This represents Class 7M1 and 7M2 as described in IEC TR 60721-4-7:2001)



	IEC 60601-1-11					
Clause	Requirement + Test	Result - Remark	Verdict			

10.1.3a1	TABLE: Shock test (IEC 60068-2-27:2008) for other than HAND-HELD EQUIPMENT, parts, and mounting ACCESSORIES under the following conditions (Test Type 1):				
	Peak acceleration				
	Duration:	: 11 ms			
	Pulse shape	: half-sine			
	Number of shocks	: 3 shocks per direction per axis (18 total)			

Direction Shock Applied	Axis Shock Applied	Basic safety and essential PERFORMANCE maintained? Yes/No	Remarks

^{* (}NOTE 3 This represents Class 7M2 as described in IEC/TR 60721-4-7:2001 [6])



			Page 26 01 32	K	eport No. 20040248	330HA-U	
			IEC 60601-1-11				
Clause	Requirem	ent + Test		Result - Rer	mark	Verdict	
10.1.3a2	EQUIPMEN	ABLE: Shock test (IEC 60068-2-27:2008) on other than HAND-HELD ME QUIPMENT, parts, and mounting ACCESSORIES under the following conditions Test Type 2):					
	Peak acce	eleration	······	300 m/s ² (15 g)			
	Duration			6 ms			
	Pulse shape half-sine		half-sine				
	Number o	of shocks	3 shocks per direction per		rection per axis (18 t	axis (18 total)	
	Direction Shock Axis S Applied App		BASIC SAFETY and ESSENTIAL PERFORMANCE maintained? Yes/No		Remarks		





	IEC	60601-1-11	
Clause	Requirement + Test	Result - Remark	Verdict
10.1.3b1	TABLE: Shock test (IEC 60068-2-2	7:2008) on HAND-HELD ME EQUIPMENT parts, and	N/A

10.1.301	mounting ACCESSORIES using the following conditions (Test Type 1):					N/A
	Peak acc	eleration	:	300 m/s ² (30 g)		
	Duration.	:		11 ms		
	Pulse sha	ape		half-sine		
	Number of	of shocks	:	3 shocks per di	rection per axis (18 to	otal)
Direction App		Axis Shock Applied	BASIC SAFETY a PERFORMANCE Yes/	maintained?	Remarks	
					1	

*(NOTE 4 This represents Class 7M3 as described in IEC/TR 60721-4-7:2001. (Test Type 1)



		IEC 60601-1-11		
Clause	Requirement + Test		Result - Remark	Verdict

10.1.3b2	TABLE: Shock test (IEC 60068-2-27:2008) on HAND-HELD ME EQUIPMENT parts, and mounting ACCESSORIES using the following conditions (Test Type 2):					
	Peak acce	eleration	:	1000 m/s ² (100	g)	
	Duration		:	6 ms		
	Pulse sha	pe	:	half-sine		
	Number o	of shocks	:	3 shocks per direction per axis (18 total)		otal)
Direction Appli		Axis Shock Applied	BASIC SAFETY A PERFORMANCE Yes/	maintained?	Remarks	



	IEC 60601-1-11		
Clause	Requirement + Test	Result - Remark	Verdict

10.1.3c	TABLE: Broad-band random vibration test (IEC EQUIPMENT, parts, and mounting ACCESSORIES us		
1	Acceleration amplitude	10 Hz to 100 Hz: 1,0 (m/s²)²/Hz	
2	Acceleration amplitude:	100 Hz to 200 Hz: - 3 db per octave	
3	Acceleration amplitude	200 Hz to 2 000 Hz: 0,5 (m/s²)²/Hz	
	Duration:	30 min per perpendicular axis (3 total)	

Perpendicular axis subjected to broad-band random vibration test	Acceleration amplitude	BASIC SAFETY and ESSENTIAL PERFORMANCE maintained? Yes/No	Remarks
1	1		
2	1		
3	1		
1	2		
2	2		
3	2		
1	3		
2	3		
3	3		

^{*(}NOTE 5 This represents Class 7M1 and 7M2 as described in IEC/TR 60721-4-7:2001)



IEC 60601-1-11				
Clause	Requirement + Test	Result - Remark	Verdict	

		UIPMENT, p			EDURE 1, ON PORTABLE N/A
1	Fall height for mas	ss ≤ 1 kg	······································	0,25 m	
2	Fall height for mas	ss > 1 kg a	nd ≤ 10 Kg:	0,1 m	
3	Fall height for mass > 10 kg and ≤ 50 Kg			0,05 m	
4	Fall height for mas	s > 50 kg	·	0,01 m	
Specified altitude (m)	Mass (Kg)	Fall No.	BASIC SAFETY and ESS PERFORMANCE mainta Yes/No		Remarks
0,25	≤ 1	1			
0,25	≤ 1	2			
0,1	> 1 & ≤ 10	1			
0,1	> 1 & ≤ 10	2			
0,05	> 10 & ≤ 50	1			

 $> 10 \& \le 50$

> 50 > 50

0,05

0,01

0,01

(*NOTE 6 This represents Class 7M2 as described in IEC/TR 60721-4-7:2001)

2

2

11.0	RM RESULTS TABLE: PROTECTION AGAINST STRANGULATION AND ASPHYXIATION		N/A	
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict	
4.3				
4.4				
5				
6.2				
6.3				
6.4				
6.5				
6.6				



IEC60601_1_11C ATTACHMENT 1				
Clause	Requirement + Test		Result - Remark	Verdict

ATTACHMENT TO TEST REPORT IEC 60601-1-11 CA NATIONAL DIFFERENCES

Medical electrical equipment, Part 1-11: Collateral Standard:

Requirements for medical electrical equipment

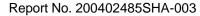
and medical electrical systems used in the home healthcare environment

 Differences according to:
 CAN/CSA-C22.2 No. 60601-1-11:15, Ed 2.

 Attachment Form No.
 CA_ND_ IEC60601_1_11C

	CA NATIONAL DIFFERENCES	Р
	The following deviations are intended to meet Canadian product requirements and to align with the Canadian Electrical Code, Part I.	Р
	International Standard IEC 60601-1-11:2015 (second edition) forms the basis for CAN/CSA-C22.2 No. 60601-1-11, which contains the following deviation in addition to those shown in CAN/CSA-C22.2 No. 60601-1:14	
	[Replace all references to "IEC 60601-1" with "CAN/CSA-C22.2 No. 60601-1"]	
1.1	Scope [Add the following} This standard covers ME EQUIPMENT and ME SYSTEMS that are intended to be installed or used in accordance with CSA C22.1, Canadian Electrical Code, Part I.	Р
2	Normative References [Add the following to the list of IEC documents] Any reference to International Standards that are adopted as National Standards of Canada subsequent to the publication of CAN/CSA-C22.2 No. 60601-1-11 shall be replaced by the relevant National Standard of Canada. [Add the following]	Р
	CSA Group Where reference is made to CSA Group publication, such reference shall be considered to refer to the latest edition and all amendments published to that edition. This Standard refers to the following publication, and the yeas shown indicate the latest editions available at the time of printing:	







IEC60601_1_11C ATTACHMENT 1				
Clause	Requirement + Test	Result - Remark	Verdict	
	C22.1-15			
	Canadian Electrical Code, Part I			
	CAN/CSA-C22.2 No. 0-10 (R2015)			
	General requirements - Canadian Electrical Code, Part II			
4	General Requirements		Р	
	[Add the following clause]			
	4.1A General			
	General requirements applicable to these products are provided in CAN/CSA-C22.1 No. 0.			