

LVD TEST REPORT

FOR

VOIP PHONE AND VOIP PHONE WITH POE

Model Name : DPH-150SE

Trade Name : DLINK

Report Number : PZD1007187-S

Issued Date : July 15, 2010

Prepared for

D-LINK INTERNATIONAL PTE LTD
1 INTERNATIONAL BUSINESS PARK #03-12

Prepared by

SHENZHEN PZD TECHNOLOGY CO.,LTD.

10F,EAST TOWER, XINGHUA BUILDING,NO.2018,SHENNAN ROAD,
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TEST REPORT

EN60950-1:2006+A11:2009

Information Technology E	quipment including electrical business equipment
Report reference No	PZD1007187-S
Testing laboratory	SHENZHEN PZD TECHNOLOGY CO.,LTD.
Location	10F,EAST TOWER, XINGHUA BUILDING,NO.2018,SHENNAN ROAD,FUTIAN DISTRICT,SHENZHEN,GUANGDONG,CHINA
Applicant	D-LINK INTERNATIONAL PTE LTD
Address:	1 INTERNATIONAL BUSINESS PARK #03-12
Manufacturer	D-LINK INTERNATIONAL PTE LTD
Address:	1 INTERNATIONAL BUSINESS PARK #03-12
Standards	EN60950-1: 2006+A11:2009
Procedure deviation	N/A
Non-standard test method	N/A
Type of test equipment	VOIP PHONE AND VOIP PHONE WITH POE
Trade mark	DLINK
Model/Type designation	DPH-150SE
Rating:	ADAPTER:5VDC,1A POE:48VDC,100mA
TRF originator	Shenzhen PZD Technology Co.,Ltd.
Copyright blank test report:	Shenzhen PZD Technology Co.,Ltd.
Test item particulars:	
Equipment mobility	Movable equipment
Operating Condition	Continuous
Tested for IT power systems	No
IT testing, phase-phase voltage (V)	N.A.
Class of equipment	Class III equipment
Mass of equipment (Kg)	1.2Kg
Protection against ingress of water	IP20

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	USS	INIC	ıcəı	Case	veruicia	-

test case does not apply to the test object N(.A.)

test object does meet the requirement P(ass)

test object does not meet the requirement F(ail)

Name and address of the testing laboratory : Shenzhen PZD Technology Co.,Ltd.

10F,EAST TOWER, XINGHUA BUILDING,NO.2018,SHENNANROAD, FUTIAN DISTRICT,SHENZHEN,GUANGDONG,CHINA

Tested by

Signature

July 10-11, 2010

Date

Steven Guo / Engineer Name/title

Signature D Technology

July 15, 2010 Date

Mark Yan / Manager Name/title

General remarks:

"(see remark #)" refers to a remark appended to the report.

Attached with:

"(see appended table)" refers to a table appended to the report.

Attachment - A. Photo documentation

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 testing laboratory.

Difference between these models:

N/A

MARKINGLABEL:



VOIP PHONE AND VOIP PHONE WITH POE MODEL:DPH-150SE

INPUT:5VDC,1000mA Max ,48VDC (POE)

XXXX XXX XXX CO., LIMITED MADE IN CHINA

Note: The above is sample for reference only.

	EN 60950-1		
Clause	Requirement	Result - Remark	Verdict

1	GENERAL		Р
1.5	Components		Р
1.5.1	Comply with IEC 60950-1 or relevant	Components which were	Р
	component standard	found to affect safety aspects	
		comply with the requirements	
		of this standard or with the	
		safety aspects of the relevant	
		IEC/EN component	
		standards.	
1.5.2	Evaluation and testing components	Components which are	Р
		certified to IEC/EN and/or	
		national standards are used	
		correctly within their ratings.	
		Components not covered by	
		IEC/EN standards are tested	
		under the conditions present	
		in the equipment.	
1.5.3	Thermal controls	No thermal controls used	N
1.5.4	Transformers	No Transformer used	N
1.5.5	Interconnecting cables	Suitable cables used	Р
1.5.6	Capacitor in primary circuits	No such capacitor used	N
1.5.7	Double or reinforced insulation bridged by	No such component.	N
	components		
1.5.7.1	Bridging capacitors	No such capacitor	N
1.5.7.2	Bridging resistors	No such resistors	N
1.5.7.3	Accessible parts	Not live hazard exist	Р
1.5.8	Components in equipment for IT power systems	Not for IT power systems	N

1.6	Power interface		Р
1.6.2	Input current		Р
	Rated current (A):	See table 1.6.1	Р
	Measured current (A)	See table 1.6.1	
	Deviation		_
1.6.3	Rated voltage of hand-held equipment	Non Direct plug-in equipment	N
1.6.4	Neutral conductor insulated from earth	Class III equipment	N

EN 60950-1			
Clause	Requirement	Result - Remark	Verdict
1.7	Marking and instructions	12	Р
1.7.1	Rated voltage (V):	See below	Р
	Rated current (A):	See page 2	Р
	Rated frequency (Hz):	See page 2	Р
	Applicant	See page 2	
	Manufacturer	See page 2	
	Trademark:	DLINK	Р
	Type/model:	See first page of this report	Р
	Symbol of ClassII	CLASS III equipment	N
	Certification marks:	CE marking	Р
1.7.2	Safety instructions	Refer to manual	Р
1.7.3	Short duty cycles	Equipment is designed for	N
		continuous operation.	
1.7.4	Supply voltage adjustment:	No such devices used	N
1.7.5	Power outlets on the equipment:	No such devices used	N
1.7.6	Fuse identification:	No fused used	N
1.7.7	Wiring terminals		N
1.7.7.1	Protective earthing terminals	Class III equipment	N
1.7.7.2	Terminal for external primary power supply		N
	conductors		
1.7.8	Controls and indicators	LCD Panel light and LED light	Р
		green when turn on the	
		equipment	
1.7.8.1	Identification and location of switches and	No such components use	N
	controls		
1.7.8.2	Colors of controls and indicators:	Functional indicator used	Р
1.7.8.3	Symbols according to IEC 417	No such symbols	N
1.7.8.4	Figures used for marking:	No figures are used.	N
1.7.9	Isolation of mutiple power supply:	No multiple power used	N
1.7.10	Instructions for installation to IT power system	This equipment is not	N
		designed for IT power	
		system.	
1.7.11	Indications at thermostats and regulating	No thermostats and	N
	devices	regulating device used	
1.7.12	Language of safety makings/instructions	English and (or other suitable	Р
		Language)	

EN 60950-1			
Clause	Requirement	Result - Remark	Verdict
			1
1.7.13	Durability and legibility	After test, the label is legible	Р
		and the marking was printed.	
1.7.14	Marking label should not attached on	The markings was attached	Р
	removable parts	on back side of the system	
1.7.15	Replaceable batteries	No batteries used	N
	Language		N
1.7.16	Operator access with a tool	Such area is SELV circuit	Р
1.7.17	Equipment for restricted access locations:	No such access location	N

2	PROTECTION FROM HAZARDS		Р
2.1	Protection against electric shock and energy	hazards	Р
2.1.1	Protection in operator access areas	No hazardous parts in	Р
		operator access areas	
2.1.1.1	Access to energized parts	Energized parts are not	Р
		accessible.	
	Tested by inspection	Find no such parts	N
	Tested with test finger	Test finger can not touch	N
		hazardous parts	
	Tested with test pin	Test pin can not touch	N
		hazardous parts	
2.1.1.2	Battery compartments	No battery used	N
2.1.1.3	Access to ELV wiring	No such wiring can be	N
		touched	
2.1.1.4	Access to hazardous voltage wiring	No hazardous voltage part in	Р
		operator access areas	
2.1.1.5	Energy hazards	No energy hazards in	Р
		operator access areas	
2.1.1.6	Manual controls		N
2.1.1.7	Discharge of capacitor in the equipment		N
2.1.2	Protection in service access areas	No hazard in service access	Р
		area.	
2.1.3	Protection in restricted access locations:	The equipment is not	N
		restricted access located.	

	EN 60950-1		
Clause	Requirement	Result - Remark	Verdict
			1
2.2	SELV circuit	T	Р
2.2.1	Voltage of SELV circuit under normal operating	The voltage does not exceed	Р
	conditions and after a single fault condition	the limit for SELV circuit	
2.2.2	Voltage (V) between any two conductor of	Max voltage under normal	Р
	SELV part and for class I equipment between	condition does not exceed	
	any part of SELV circuit and protective earthing	42.4V peak or 60Vdc under	
	terminal	normal conditions and single	
		fault condition	
2.2.3	Voltage (V) of SELV circuit in the event of a	Not exceed 42.2V peak or	Р
	single failure of basic or supplementary	60V d.c	
	insulation or of a component		
	Method used for separation		N
2.2.4	Connection of SELV circuits to other circuits	SELV circuit used	Р
2.3	TNV circuits		N
2.3.1	Limits of the TNV circuits		N
a)	TNV-1 circuits:		N
b)	TNV-2circuits and TNV-3 circuits		N
2.3.2	Separation from other circuits and from		N
	accessible parts		
2.3.3	Separation from hazardous voltages		N
	Insulation between TNV-1circuit and circuit at		N
	hazardous voltage		
	Method used		N
2.3.4	Connection of TNV circuits to other circuits		N
	Insulation between TNV circuit supplied		N
	conductively from secondary circuit and		
	hazardous voltage circuit		
2.3.5	Operating voltages generated externally		N
	Voltage in SELV circuit , TNV-1 circuit or		N
	accessible conductive part		
	·		
2.4	Limited current circuits		N
2.4.1	General requirements		N
	Test voltage (V):		
2.4.2	Measured current (mA):		N

EN 60950-1					
Clause	Requirement	Result - Remark	Verdict		
	Measured capacitance (μF)		N		
	Measured charge (μC)		N		
	Measured energy (mJ):		N		
2.4.3	Limited current circuit supplied from or connected to other circuits		N		
2.5	Limited power sources		Р		
	Use of limited power sources		Р		
	<u> </u>				
2.6	Provisions for protective earthing		N		
2.6.1	Protection earthing	Class III equipment	N		
2.6.2	Functional erathing		N		
2.6.3	Protective earthing and protective bonding conductors		N		
2.6.3.1	Size of the protective earthing conductors Assured earth connection in systems	0.75mm ²	N		
2.6.3.2	Size of the protective bonding conductors		N		
2.6.3.3	Resistance of protective earthing conductors		N		
	Test current (A)		N		
2.6.3.4	Color of insulation		N		
2.6.4	Terminals of the protective conductors	Complied with Table 3E	N		
2.6.4.1	Protective earthing and bonding terminals		N		
	Occasion of social control of				
2.6.4.2	Separation of protective earth from protective bonding conductors		N		

Components in protective earth and bonding No component used

2.6.5

2.6.5.1

2.6.5.2

2.6.5.3

2.6.5.4

2.6.5.5

2.6.5.6

2.6.5.7

2.6.5.8

Integrity of protective erathing

Interconnection of equipment

Disconnection of protective earth

Parts removed during servicing

Screws for protective bonding

Reliance on telecommunication network

Operator removable parts

Corrosion resistance

conductors

Suitable method used

No movable parts

No such parts used

telecommunication network

No screw used

Not used for

Ν

Ν

Ν

Ν

Ν

Ν

Ν

Ν

Ν

	EN 60950-1			
Clause	Requirement	Result - Remark	Verdict	
2.7	Overeverselt and earth fault protection in a	vimov, circuito	N	
2.7.1	Overcurrent and earth fault protection in p	orimary circuits	N	
2.7.1	Basic requirements Protection against faults not covered in 5.3		N	
2.7.3	Short-circuit backup protection		N	
2.7.3 2.7.4		No fuse used	N	
2.7.5	Number and location of protective devices	No luse useu	N	
2.7.6	Protection by several devices Warning to service personnel		N	
2.1.0	warning to service personner		IN.	
2.8	Safety interlocks		N	
2.8.2	Design	No Safety interlocks.	N	
2.8.3	Protection against inadvertent reactivation		N	
2.8.4	Fail-safe operation		N	
2.8.5	Interlocks with moving parts		N	
2.8.6	Override system		N	
2.8.7.1	Contact Gap		N	
2.8.7.2	Switch performing 50 cycles		N	
2.8.7.3	Endurance test		N	
2.8.7.4	Electric strength test: test voltage (V)	:	N	
2.8.8	Protection against overstress		N	
2.9	Insulations		Р	
2.9.1	Properties of insulation materials	Neither natural rubber,	Р	
		Asbestos or hygroscopic		
		materials are used.		
2.9.2	Humidity conditioning		N	
	Humidity (%)			
	Temperature (°C)			
2.9.3	Requirements for insulation		N	
2.9.4	Insulation parameters	Application and working	N	
		voltage are considered		
2.9.5	Categories of insulation		N	
2.40	Clearences areases distances and distances	noon through included an		
2.10	Nominal voltage (V)		P	
2 10 1				
2.10.1	General Determination of working valtage	Functional insulation used	P	
2.10.2	Determination of working voltage		N	

EN 60950-1				
Clause	Requirement	Result - Remark	Verdict	
2.10.3	Clearances		Р	
2.10.3.2	Clearance in primary circuit		N	
2.10.3.3	Clearance in secondary circuit	SELV Circuit	N	
2.10.3.4	Measurement of transient levels		N	
2.10.4	Creepage distances		Р	
	CTI tests		_	
2.10.5	Solid insulation		N	
2.10.5.1	Distances through insulation	Functional insulation used	N	
2.10.5.2	Thin sheet material		N	
2.10.5.3	Multi-layer boards		N	
2.10.5.4	Wound components		N	
2.10.6	Distances on coated printed boards	No coated printed boards.	N	
2.10.7	Enclosed and sealed parts	No hermetically sealed components.	N	
2.10.8	Spacing filled by insulating compound	No spacing filled by insulating compound	N	
2.10.9	Spacings between external terminations of components	No such terminations	N	
2.10.10	Insulation with varying dimensions	No such transformer used	N	

3	WIRING, CONNECTIONS AND SUPPLY		Р
3.1	3.1 General		Р
3.1.1	Current rating and overcurrent protection	SELV circuits	N
3.1.2	Protection against mechanical damage	Wires do not touch sharp edges, heatsinks, moving parts, which could damage the insulation and cause a hazard.	Р
3.1.3	Securing of internal wring	All internal wire are properly secured and routed away from excessive strain or damage of conductor insulation.	Р

	EN 60950-1		
Clause	Requirement	Result - Remark	Verdict
3.1.4	Insulation of conductors	Insulation on internal conductor are considered to be of adequate quality and	P
0.4.5		suitable for the application	<u> </u>
3.1.5	Beads and ceramic insulators	No beads or similar ceramic insulators provided	N
3.1.6	Screws for electrical contact pressure	No such screw	N
3.1.7	Non-metallic materials in electrical connections	No such material	N
3.1.8	Self-tapping and spaced thread screws	No such components used	N
3.1.9	Termination of conductors	Suitable method used and pass 10N force test	Р
3.1.10	Sleeving on wiring	No sleeving used	N
3.2	Connection to a.c. mains supply or d.c. main	ns supply	Р
3.2.1	Means of connection:	Class III equipment	N
3.2.2	Multiple supply connections	No multiple supply connections	N
3.2.3	Provision for permanent connection:	No permanent connection.	N
3.2.4	Appliance inlets	No inlet used	N
3.2.5	Type and cross-sectional area of power supply		N

	EN 60950-1		
Clause	Requirement	Result - Remark	Verdict
3.3	Wiring terminals for external power supply	conductors	N
3.3.1	Wiring terminals	Not permanently connected equipment	N
3.3.2	Connection of non-detachable power supply cords		N
3.3.3	Screws terminals		N
3.3.4	Connector sizes to be connected		N
3.3.5	Wiring terminal sizes		N
	Nominal thread diameter (mm)		N
3.3.6	Wiring terminal design		N
3.3.7	Grouping of wiring terminals		N
3.3.8	Test with 8 mm stranded wire	No possibility of hazard	N
3.4	Disconnection from the a.c. mains supply		Р
3.4.1	General requirement	Class III equipment	N
3.4.2	Disconnect devices	Oldoo III equipment	N
3.4.3	Permanently connected equipment	No such equipment	N
3.4.4	Parts remain energized	No such parts	N
3.4.5	Switches in flexible cords	No switch in flexible cords	N
3.4.6	Single phase equipment		N
3.4.7	Three phase equipment	No such equipment	N
3.4.8	Switches as disconnect devices	No switch used	N
3.4.9	Installations instructions if plug acts as disconnect device		N
	Interconnected equipment		N
3.4.10	interconnected equipment		•••

3.5	Interconnection of equipment	
3.5.1	General requirements Class III equipment, all Scircuit used	SELV N
3.5.2	Type of interconnection circuits	N
3.5.3	ELV circuits as interconnection circuits	N

	EN 60950-1			
Clause	Requirement	Result - Remark	Verdict	

4	PHYSICAL REQUIREMENTS		Р
4.1	Stability		Р
	Stability tests, Angle of 10°	Placed on 10° incline and	Р
		turn 360° no turnover occurs	
	Test: force (N):	Equipment is not a	N
		floor-standing unit.	

4.2	Mechanical strength and stress relief		Р
4.2.1	General		Р
4.2.2	Steady force test 10N±1N;5s	For the components	N
4.2.3	Internal enclosures 30N ± 3 N; 5s	For the enclosure behind the cover of the adjustment	N
4.2.4	External enclosures 250 N ±10 N; 5s	No energy or other hazards after the test.	N
4.2.5	Impact test	No hazards exist and work normally after test	N
	Steel sphere approximately 50mm in diameter and a mass of 500g \pm 25g, a vertical distance of 1.3m		N
4.2.6	Drop test		N
	A mass of 5kg or less, 750 mm ± 10mm for desk top equipment as described above.	Pass this test and no hazard exist,pass the hi-pop test	N
	A mass of 5kg or less, 1000mm±10mm for HAND-HELD, DIRECT PLUG-IN AND TRANSPORTABLE EQUIPMENT		N
4.2.7	Stress relief	70℃,7Hours After test, no hazards parts accessible	N
4.2.8	Cathode ray tubes	No cathode tube used	N
4.2.9	High pressure lamps	No such lamps	N
4.2.10	Wall or ceiling mounted equipment	50N force used,no hazards exist	Р

4.3	Design and construction		Р
4.3.1	Edges and corners	All be rounded and smoothed	Р
4.3.2.	Fixing knobs, grips, handles, levers	No such parts used	N
4.3.3.	Adjustable controls	No such adjustable controls	N

	EN 60950-1				
Clause	Requirement	Result - Remark	Verdict		
		Γ	1		
4.3.4	Securing of parts	Screws, nuts, or similar parts	Р		
		are secured and withstand			
		mechanical stress occurring			
		in normal use			
4.3.5	Connection of plug and sockets		N		
4.3.6	Direct plug-in equipment	No direct plug-in equipment	N		
	The additional torque which was applied to the				
	socket outlet to maintain the engagement face				
	in the vertical plane did not exceed 0.25 Nm				
4.3.7	Heating elements in earthed equipment	No such heating elements	N		
		used			
4.3.8	Batteries	No batteries used	N		
4.3.9	Oil and grease	Insulation is not exposed to	N		
		oil and grease			
4.3.10	Dust, powders, liquids and gases	The equipment does not	N		
		produce dust or employ			
		liquids or gases			
4.3.11	Containers for liquids or gases	No such containers used	N		
4.3.12	Flammable liquids	No flammable liquids used	N		
4.3.13	Radiation	No radiation occurs	Р		
		LED indicator only	Р		
	<u> </u>				
4.4	Protection against hazardous moving parts		N		
44.1	General	No moving parts used	N		
4.4.2	Protection in operator access area		N		
4.4.3	Protection in restricted area		N		
4.4.4	Protection in service access area		N		
4.5	Thermal requirements		Р		
4.5.1	Heating		P		
7.0.1	Heating test	See append table 4.5.1	P		
4.5.2	Resistance to abnormal heat	See append table 4.5.2	P		
T.U.Z	Tresionarios to apriorinarios	TOOC appoint table 4.0.2	<u> </u>		
4.6	Openings in enclosures		Р		
4.6.1	Top and side openings	Round openings Φ2mm	Р		

	EN 60950-1			
Clause	Requirement	Result - Remark	Verdict	
4.6.2	Bottoms of fire enclosures	16 openings width*length	Р	
		2mm*25mm		
4.6.3	Doors and covers in fire enclosures	No such doors and covers	N	
4.6.4	Openings in transportable equipment	No transportable equipment	N	
4.6.5	Adhesives for constructional purposes	No adhesive used	N	

4.7	Resistance to fire		Р
4.7.1	Reducing the risk of ignition and spread of	Method 1: Selection and	Р
	frame	application of components	
		and materials which minimize	
		the possibility of ignition and	
		spread of flame.	
	Method 1, selection and application of	see critical component list.	Р
	components wiring and materials		
	Method 2, application of all of simulated fault		N
	condition tests		
4.7.2	Conditions for fire enclosures	Compliance with the fault	Р
		conditions of 5.3	
4.7.2.1	Parts requiring a fire enclosure		Р
4.7.2.2	Parts not requiring fire enclosure:		N
4.7.3	Materials		Р
4.7.3.1	General rules		Р
4.7.3.2	Materials for fire enclosures	Flammability class 94HB	Р
4.7.3.3.	Materials for components and other parts		N
	outside fire enclosures		
4.7.3.4	Materials for components and other parts	The material used be	Р
	inside fire enclosures	adequately	
4.7.3.5	Materials for air filter assemblies	No air filter assemblies	N
4.7.3.6	Materials used in high-voltage components	No such components used	N

5	Electrical requirements and simulated abnormal conditions Touch current and protective conductor current		Р
5.1			Р
	Test voltage (V)	CLASS III equipment	-
	Measured current (mA)		-
	Limited current (mA)		-

	EN 60950-1		_
Clause	Requirement	Result - Remark	Verdict
		<u> </u>	1
5.1.7	Equipment with touch current exceeding 3.5mA	Class III equipment	N
		The touch current does not	
		exceed the limit	
5.1.8	Touch current to and from telecommunication	No such network used	N
	network		

5.2	Electric strength		N
5.2.1	General	Class III equipment	N
5.2.2	Test procedure	According to the procedure	N
		stated in this standard	

5.3	Abnormal operating and fault conditions		Р
5.3.1	Protection against overload and abnormal operation		Р
5.3.2	Motors	No motors used	N
5.3.3	Transformers	Transformer used comply with annex C.1,refer table	N
5.3.4	Function insulation	5.3.6 Meet the appropriate creepage distance and	P
5.3.5	Electromechanical components in secondary circuits	clearance distance No hazard will be occurred in secondary circuit	Р
5.3.6	Simulation of faults	See append table 5.3.6	Р
5.3.7	Unattended equipment	No such equipment	N
5.3.8	Compliance criteria for abnormal operating and fault conditions	No flame emitted, no molten material emitted, no deformation of enclosure	P

6	CONNECTION TO TELECOMMUNICATION NETWORKS	N
6.1	Protection of telecommunication network service personnel, and other equipment connected to the telecommunication network hazards in the equipment	
6.1.1	Protection from hazards voltages	N
6.1.2.1	Insulation between TNV circuit and parts or circuits that may be earthed	N
6.1.2.2	Exclusions	N

	EN 60950-1		
Clause	Requirement	Result - Remark	Verdict

6.2	Protection of equipment users from voltage on the telecommunication	N
6.2.1	networks Separation requirements	N
6.2.2	Test procedure	N
6.2.2.1	Impulse test: separation betweenTNV-1 circuits/TNV-3 circuits and	N
a)	Unearthed conductive parts of the equipment expected to be held or touched during normal use 2.5kV	N
b)	Parts and circuits that can be touched by test finger except contact of connectors that can not be touched by test probe:1.5kV	N
c)	Circuits which is provided for connection of other equipment 1.5kV	N
6.2.2.2	Electric strength test: separation between TNV-1 circuits/TNV-3circuits and	N
a)	Unearthed conductive parts of the equipment expected to be held or touched during normal use :2.5kV	N
b)	Parts and circuits that can be touched by test finger except contact of connectors that can not be touched by test probe: 1.0kV	N
c)	Circuits which is provided for connection of other equipment 1.0kV	N
6.2.2.3	Compliance criteria	N

6.3	Protection of telecommunication wiring system from overheating	N
	The equipment shall limit the output current to a suitable value	N
	The size of telecommunication wiring system and the limit current at any load condition	N
	The method of limit output current from the equipment	N
	The measured max continuous current from the equipment after 60's	N

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Clause	Requirement	Result - Remark	Verdict

7	Connection to cable distribution systems	N
7.1	Protection of cable distribution system service	N
	person and user of other equipment connected	
	to the system, from hazardous voltage in the	
	equipment	
	Circuitry directly connected to the system shall	N
	comply with the requirements for TNV-1,TNV-2	
	or a hazardous voltage secondary circuit	
7.2	Protection of equipment users from	N
	overvoltage on the cable distribution system	
7.3	Insulation between primary and cable systems	N
7.3.1	The insulation shall comply with the test of	N
	7.3.2 and 7.3.3. A Electric strength test needed	
	after above test.	
7.3.2	Voltage surge test	N
	The test is applied between the supply circuit	
	terminals and the main protective earthing	
	terminal ,	
	the spec.10KV 50 discharges at rage of	
	12/min.	
7.3.3	Impulse test	N
	The test is applied between the supply circuit	
	terminals and the main protective earthing	
	terminal ,	
	the spec.5KV for power-fed repeaters	
	4KV for all other terminal and network	
	equipment.	

А	Annex A, TESTS FOR RESISTANCE TO HEAT AND FIRE	N
A.1	Flammability test for fire enclosures of movable equipment having a total mass exceeding 18 kg, and of stationary equipment (see 4.7.3.2)	N
A.1.1	Samples:	
	Wall thickness (mm):	-
A.1.2	Conditioning of samples; temperature (°C):	N
A.1.3	Mounting of samples:	N
A.1.4	Test flame	N

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Clause	Requirement	Result - Remark	Verdict
A.1.5	Test procedure		N
A.1.6	Compliance criteria		N
	Sample 1 burning time (s)		-
	Sample 2 burning time (s)		-
	Sample 3 burning time (s):		-
A.2	Flammability test for fire enclosures of moval mass not exceeding 18 kg, and for material an fire enclosures (see 4.7.3.2 and 4.7.3.4)		
A.2.1	Samples, material:		-
	Wall thickness (mm)		-
A.2.2	Conditioning of samples		N
A.2.3	Mounting of samples		N
A.2.4	Test flame		N
A.2.5	Test procedure		N
A.2.6	Compliance criteria		N
	Sample 1 burning time (s):		-
	Sample 2 burning time (s):		-
	Sample 3 burning time (s):		-
A.2.7	Alternative test acc. to IEC 60695-2-2, cl. 4, 8		N
	Sample 1 burning time (s):		-
	Sample 2 burning time (s):		-
	Sample 3 burning time (s):		-
A.3	Hot flaming oil test (see 4.6.2)		N
A.3.1	Mounting of samples		N
A.3.2	Test procedure		N
A.3.3	Compliance criterion		N
В	Annex B, MOTOR TESTS UNDER ABNORMAL and 5.3.2)	CONDITIONS(see 4.7.2.2	N
B.1	General requirements		N
	Position:		-

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Clause	Requirement F	Result - Remark	Verdict		
	Manufacturer:		_		
	Type		_		
	Rated values		_		
B.2	Test conditions		N		
B.3	Maximum temperatures		N		
B.4	Running overload test		N		
B.5	Locked-rotor overload test		N		
D.J			IN		
	Test duration (days)		-		
D.0	Electric strength test: test voltage (V)		-		
B.6	Running overload test for d.c. motors in secondary circuits		N		
B.7	Locked-rotor overload test for d.c. motors in seco	I ndary circuits	N		
B.7.1	Test procedure		N		
B.7.2	Alternative test procedure; test time (h)		N		
B.7.3	Electric strength test		N		
B.8	Test for motors with capacitors		N		
B.9	Test for three-phase motors		N		
B.10	Test for series motors		N		
	Operating voltage (V):		-		
С	Annex C, TRANSFORMERS (see 1.5.4 and 5.3.3)		N		
	Position:	Transformer is secured on PCB inside the enclosure.	-		
	Manufacturer		-		
	Туре		-		
	Rated values		-		
	Method of protection:		-		
C.1	Overload test	see appended table 5.3	N		
C.2	Insulation	see appended table 5.2	N		
	Protection from displacement of windings:	Reinforce insulation used	N		
D	Annex D, MEASURING INSTRUMENTS FOR TO	OUCH-CURRENT TESTS	N		

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Clause	Requirement	Result - Remark	Verdict
D.1	Measuring instrument	Simpson	N
D.2	Alternative measuring instrument		N
E	Annex E, TEMPERATURE RISE OF A WINDING	⊥ G	N
F	Annex F, MEASUREMENT OF CLEARANCES ADDISTANCES (see 2.10)	AND CREEPAGE	Р
G	Annex G, ALTERNATIVE METHOD FOR DETE	RMINING MINIMUM	N
G.1	Summary of the procedure for determining minimum clearances		N
G.2	Determination of mains transient voltage (V)		N
G.2.1	AC mains supply		N
G.2.2	DC mains supply		N
G.3	Determination of telecommunication network transient voltage (V):		N
G.4	Determination of required withstand voltage (V):		N
G.5	Measurement of transient levels (V)		N
G.6	Determination of minimum clearances		N
Н	ANNEX H, IONIZING RADIATION (see 4.3.13)		N
J	Annex J, TABLE OF ELECTROCHEMICAL PO	TENTIALS (see 2.6.5.6)	N
	Metal used		-
K	ANNEX K, THERMAL CONTROLS (see 1.5.3 ar	nd 5.3.7)	N
K.1	Making and breaking capacity		N
K.2	Thermostat reliability; operating voltage (V):		N
K.3	Thermostat endurance test; operating voltage (V)		N
K.4	Temperature limiter endurance; operating voltage (V)		N
K.5	Thermal cut-out reliability		N
K.6	Stability of operation		N
L	Annex L, NORMAL LOAD CONDITIONS FOR SELECTRICAL BUSINESS EQUIPMENT (see 1.2)		Р

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Clause	Requirement Result - Remark	Verdict
L.1	Typewriters	N
L.2	Adding machines and cash registers	N
L.3	Erasers	N
L.4	Pencil sharpeners	N
L.5	Duplicators and copy machines	N
L.6	Motor-operated files	N
L.7	Other business equipment	Р
М	Annex M, CRITERIA FOR TELEPHONE RINGING SIGNALS (see 2.3.1)	N
M.1	Introduction	N
M.2	Method A	N
M.3	Method B	N
M.3.1	Ringing signal	N
M.3.1.1	Frequency (Hz):	-
M.3.1.2	Voltage (V):	-
M.3.1.3	Cadence; time (s), voltage (V)	-
M.3.1.4	Single fault current (mA)	-
M.3.2	Tripping device and monitoring voltage:	N
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage	N
M.3.2.2	Tripping device	N
M.3.2.3	Monitoring voltage (V):	N
N	Annex N, IMPULSE TEST GENERATORS (see 2.10.3.4, 6.2.2.1, 7.3.2 and clause G.5)	N
N.1	ITU-T impulse test generators	N
N.2	IEC 60065 impulse test generator	N
Р	Annex P, NORMATIVE REFERENCES	N
Q	Annex Q, BIBLIOGRAPHY	N
R	Annex R, EXAMPLES OF REQUIREMENTS FOR QUALITY CONTROL PROGRAMMES	N
R.1	Minimum separation distances for unpopulated	N

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Clause	Requirement Result - Remark	Verdict
	coated printed boards (see 2.10.6)	
R.2	Reduced clearances (see 2.10.3)	N
S	Annex S, PROCEDURE FOR IMPULSE TESTING (see 6.2.2.3)	N
S.1	Test equipment	N
S.2	Test procedure	N
S.3	Examples of waveforms during impulse testing	N
Т	Annex T, GUIDANCE ON PROTECTION AGAINST INGRESS OF WATER (see 1.1.2)	N
	:	-
U	Annex U, INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION (see 2.10.5.4)	N
	:	-
V	ANNEX VAC POWER DISTRIBUTION SYSTEMAS (see 1.6.1)	N
V.1	Introduction	N
V.2	TN power distribution systems	N
W	ANNEX W SUMMATION OF TOUCH CURRENTS	N
W.1	Touch current from electronic circuits	N
W.1.1	Floating circuits	N
W.1.2	Earthed circuits	N
W.2	Interconnection of several equipments	N
W.2.1	Isolation	N
W.2.2	Common return, isolated from earth	N
W.2.3	Common return, connected to protective earth	N
Х	ANNEX X MAXIMUM HEATING EFFECT IN TRANSFORMER TESTS (see clause C.1)	N
X.1	Determination of maximum input current	N
X.2	Overload test procedure	N

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Clause	Requirement	Result - Remark	Verdict		
Y	ANNEX Y, ULTRAVIOLET LIGHT CONDITIO	NING TEST (see 4.3.13.3)	N		
Y.1	Test apparatus		N		
Y.2	Mounting of test samples		N		
Y.3	Carbon-arc light-exposure apparatus		N		
Y.4	Xenon-arc light-exposure apparatus		N		
Z	ANNEX Z, OVERVOLTAGE CATEGORIES (s	ee 2.10.3.2 and Clause G.2)	N		
AA	ANNEX AA, MANDREL TEST (see 2.10.5.8)		N		
BB	ANNEX BB, CHANGES IN THE SECOND ED	ITION	N		

TABLE 1.5	List of critical components and materials						
Component	manufacturers / trademark	Type / model	Value / rating	Approval/			
				Reference			
			I/P:100~240Vac,				
Ac adaptor	Varies	LPS POWER SUPPLY	50/60Hz.0.2A;	UL/GS/CE			
			O/P:5Vdc,1A;				
LCD Module	Varios		FSTN Postive				
	Varies		type				
Speaker	Varian		8 ohm, 0.5W				
	Varies						
PCB	Marka a		Min.V-1,min				
	Varies		105℃	UL			
Plastic	Maria		HB min				
enclosure	Varies			UL			

Table 1.6	.1	TABL	E: Input current test da	Р	
DPH-150SE					
No.	Voltag	ge	Ampere Measured Watts		Note
1	5VD0	O	0.27	1.35	Normal load
2	48VD	С	0.03	1.44	Normal load

Table2.5	TABLE: limited power source measurement Pass					
	Limits	Measured	Verdict			
For Data port (PC por	For Data port (PC port pin 1-8)					
According to Table 2E	8 (normal condition), Uoc $=$	0 V				
current (in A)	8	0	Pass			
Apparent power (in	≤ 100	0	Pass			
VA)	<u> </u>					
For Data port (LAN p	ort pin 1-8)					
According to Table 2E	8 (normal condition), Uoc $=$	0 V				
current (in A)	8	0	Pass			
Apparent power (in	≤ 100	0	Pass			
VA)	≥ 100					
Note(s):						

Table 2.10.2 and 2.10.3	TABLE: c	ABLE: clearance and creepage distance measurements				
clearance cl,creepage dist at/of: Measurement points	tance dcr	Required cl (mm)	Measured cl (mm)	Required dcr (mm)	Measured dcr (mm)	U (V)
Transformer primary to secondary		4.0		4.0		

Table 4.2.7	TABLE	: Stress relief test	N		
Part		Test temperature (°C)	Test duration	Observa	ation
Whole unit			7h	no haza expose	le defect and ird part to the user vice person

Table 4.5.1 TABI	LE: tempe	ature rise measurements (normal condition)			
DPH-150SE			Test voltage		
		5Vdc	48Vdc		
Part		Temperature rise Δt(K)	Temperature rise Δt(K)	Limit Δt(K)	
PCB near U1		26.3	26.5	80	
PCB near U3		26.8	27.0	80	
PCB near U2		27.8	27.9	80	
EC3		22.3	22.1	60	
U5 Body		23.8	23.7	105	
C95 Body		20.8	20.9	60	
Enclosure inside near U1		8.8	8.9		
Enclosure outside near U1		3.8	4.2	60	
Ambient		26.2	26.2		

Table 4.5.2	TABLE: ball pi	ressure test of thermop	N		
Part		Test temperature (℃)	Impression diameter (mm)		equired impression diameter (mm)
PCB		125			≤2 mm
Bobbin		125			≤2 mm

Table 5.2.2 TABLE: electric strength measurements			
Test voltage applie	ed between:	Test voltage (Vac)	Breakdown (Y/N)
Line of power sup	oly and output		
Line of power sup	oly and enclosure		
Two layers of space	er tape in transformer		
Primary and secon	ndary of transformer		
Primary and core	of transformer		

Table 5.3.6	Fault conditions test				Р
No.	Component No. Fault	Fault conditions	Test voltage V	Test period	Result of test
1	Openings	Block	Normal	0.5h	Work normally,no damage,no hazards exist T _{PCB} =55°C

Attachment – A

Photo documentation

attached with total 4 pages including this page









