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#### Test Report issued under the responsibility of:



The following sample(s) was/were submitted and identified on behalf of the client as:

TEST REPORT				
Railway applications – Electronic equipment used on rolling stock (EN: 50155:2017)				
Report Reference No	GZES200201132501			
Tested by (name + signature):	Chico Li Services Co. III			
Approved by (+ signature):	Anlay Dong Dong			
Date of issue	2020-03-13			
Total number of pages	22 电子电气头凝全			
Testing Laboratory	SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch			
Address:	198 Kezhu Road, Science City, Economic & Technology Development Area, Guangzhou, Guangdong, China			
Applicant's name	Hangzhou Hikvision Digital Technology Co., Ltd.			
Address:	No.555 Qianmo Road, Binjiang District, Hangzhou 310052, China			
Test specification:				
Test procedure:	Railway applications – Electronic equipment used on rolling stock (EN: 50155:2017)			
Non-standard test method:	None			
Test Report Form No	EN50155_D			
Test Report Form(s) Originator:	SGS-CSTC			
Master TRF	2018-2-28			



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Test item description:	Network Camera
Model/Type reference	DS-2XM6522G0-I/ND, DS-2XM6512G0-I/ND,
	DS-2XM6512G0-I/NDUHK, DS-2XM6512G0-I/NDCKV.
	DS-2XM6512G0-I/NDUVS, DS-2XM6512G0-I/NDKVO,
	DS-2XM6512G0-I/NDHUN, DS-2XM6512G0-IM/ND.
	DS-2XM6512G0-IM/NDUHK, DS-2XM6512G0-IM/NDCKV,
	DS-2XM6512G0-IM/NDUVS, DS-2XM6512G0-IM/NDKVO,
	DS-2XM6512G0-IM/NDHUN, DS-2XM6522G0-I/ND,
	DS-2XM6522G0-I/NDUHK, DS-2XM6522G0-I/NDCKV,
	DS-2XM6522G0-I/NDUVS, DS-2XM6522G0-I/NDKVO,
	DS-2XM6522G0-I/NDHUN, DS-2XM6522G0-IM/ND,
	DS-2XM6522G0-IM/NDUHK, DS-2XM6522G0-IM/NDCKV,
	DS-2XM6522G0-IM/NDUVS, DS-2XM6522G0-IM/NDKVO,
	DS-2XM6522G0-IM/NDHUN, DS-2XM6512WD-I/ND,
	DS-2XM6512WD-I/NDUHK, DS-2XM6512WD-I/NDCKV,
	DS-2XM6512WD-I/NDUVS, DS-2XM6512WD-I/NDKVO,
	DS-2XM6512WD-I/NDHUN, DS-2XM6512WD-IM/ND,
	DS-2XM6512WD-IM/NDUHK, DS-2XM6512WD-IM/NDCKV,
	DS-2XM6512WD-IM/NDUVS, DS-2XM6512WD-IM/NDKVO,
	DS-2XM6512WD-IM/NDHUN, DS-2XM6522WD-I/ND,
	DS-2XM6522WD-I/NDUHK, DS-2XM6522WD-I/NDCKV,
	DS-2XM6522WD-I/NDUVS, DS-2XM6522WD-I/NDKVO,
	DS-2XM6522WD-I/NDHUN, DS-2XM6522WD-IM/ND,
	DS-2XM6522WD-IM/NDUHK, DS-2XM6522WD-IM/NDCKV,
	DS-2XM6522WD-IM/NDUVS, DS-2XM6522WD-IM/NDKVO,
	DS-2XM6522WD-IM/NDHUN



Ratings	PoE (36 Vd.c. – 57 Vd.c.); 0,25 A – 0,15 A; 8,8 W
Brand name	HIKVISION
Manufacturer	Same as applicant
Factory:	Hangzhou Hikvision Technology Co., Ltd. No.700, Dongliu Road, Binjiang District, Hangzhou Ctiy, Zhejiang, 310052, China
	Hangzhou Hikvision Electronics Co., Ltd. No.299, Qiushi Road, Tonglu Economic Development Zone, Tonglu County, Hangzhou, Zhejiang, 310052, China
	Chongqing Hikvision technology Co., Ltd. No. 118, Haikang Road, Area C, Jianqiao Industrial Park, Dadukou District, Chongqing, 401325, China
Summary of testing:	

The sample(s) in this report has considered and complied below mandatory tests and requirements according to Railway applications – Electronic equipment used on rolling stock (EN: 50155:2017).

When determining the test conclusion, the Measurement Uncertainty of test has been considered.

Model DS-2XM6522G0-I/ND was selected for test as representative.

Stabilized PoE power source was used for test, all the performance checks were carried out at both 36Vd.c. and 57Vd.c. input.



s performed:			
Selected verdict	Sub- clause	Test name	Reference test method standard
	13.4.1	Visual inspection test	
	13.4.2	Performance test	
	13.4.3	Power supply test,	
	13.4.4	Low temperature start-up test,	EN 60068-2-1:2007 (test Ad)
	13.4.5	Dry heat test	EN 60068-2-2: 2007 (test Be)
	13.4.6	Low temperature storage test*	
	13.4.7	Cyclic damp heat test	EN 60068-2-30:2005 (test Db variant 2)
$\square$	13.4.9	Insulation test	
	13.4.10	Salt mist test*	EN 60068-2-11:1999 (test Ka)
$\square$	13.4.11	Vibration and shock test	EN 61373: 2010
	13.4.12	Enclosure protection test (IP code) *	
	13.4.13	Equipment stress screening test*	
	13.4.14	Rapid temperature variation test*	

The test item with \* markings are optional test subject to contract agreement between the user and the manufacturer, and the items without marking are mandatory tests according to standard.

The report does not contain 13.4.8 EMC test.



TRF No. EN50155\_D



#### Possible test case verdicts:

<ul> <li>test case does not app</li> </ul>	y to the test object	N (or 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 ...... 2020-02-10

#### 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.



Function:	Network Camera main function is collecting real-time
	video signals, Power by stabilized PoE then through
	Signal terminal transmission to PC online surveillance
Power Source:	Stabilized Power over Ethernet
nstallation:	Used on rolling stock inside railway vehicles, body mounted
Construction:	Metal enclosure fixed by screws
Accessories:	No
Altitude	$\square$ A1 (default requirement); $\square$ A2 $\square$ A3 $\square$ AX
Dperation temperature:	$\Box OT1  \boxtimes OT2  \Box OT3  (default requirement)$
witch-on extended operating emperature:	ST0 ST1 (default requirement), ST2, NA
apid temperature variation	$\square$ H1 (default requirement), $\square$ H2 $\square$ N/A
ibration and shock	Category 1 Class A Category 1 Class B (recommended requirement); 2 (Bogie mounted), 3 (Axle mounted)
nterruption voltage supply	$\square S1 \qquad \square S2 \text{ (default requirement), } \square S3 \square N/A$
upply change-over	$\Box$ C1 default requirement, $\Box$ C2 $\Box$ N/A
ocumentation	□class M ⊠M0 default requirement,

## Model differences:

All models are identical except model name and software version.



Railway applications – Electronic equipment used on rolling stock (EN: 50155:2017)			
CI.	Requirement-Test	Result-Remark	Verdict
13.4.1 Visua	al inspection	·	
13.4.1 (a)	The visual inspection test verifies the mechanical, dimensional and appearance conformance of the Electronic Equipment		Р
13.4.1 (b)	A visual inspection shall be carried out before and after tests to check whether any damage or deterioration has occurred resulting from the tests.	After test, sample shows no damage and function is fine	Р
13.4.2 Perfo	prmance test		
13.4.2 (a)	The Performance test verifies the functional requirement of the Electronic Equipment, according to the performance test specification and procedure written by the supplier	Unit was tested with PoE power, during test unit shows no damage and function is fine.	Р
13.4.2 (b)	The performance test shall be carried out at the ambient temperature, consist of a comprehensive series of measurements of the characteristics of the equipment to check the performance is in accordance with the functional requirements of the particular equipment concerned, including any special requirements of its individual specification, and general requirements of this standard.		Ρ
13.4.3 Powe	er supply test	I	1
13.4.3.1	The test verifies the functionality of the electronic equipment in all the conditions foreseen for the power supply.	Powered by stabilized PoE	N/A
	If the electronic equipment has a large number of similar power supply ports, which are electrically identical, then a sufficient number shall be selected to simulate actual operating conditions.	Only one power supply ports	N/A
	For each selected combination of test level and duration, with a sequence of 10 dips/interruptions and overvoltage with intervals of 10s minimum and 1 min maximum.	Powered by stabilized PoE	N/A



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F	Railway applications – Electronic equipment used on rolling stock (EN: 50155:2017			
CI.	Requirement-Test	Result-Remark	Verdict	
13.4.3.2	Supply variations DC power supply range: Tests shall be performed to prove correct functioning for the voltage range.	Powered by stabilized PoE	N/A	
	Temporary supply overvoltage up to 1.4Un lasting no more than 0.1s shall not cause deviation of function (performance criterion A)			
	Voltage V DC 1,4 Un Un $\leq 10 \text{ ms}}$ 100 ms $\leq 10 \text{ ms}}$ Time Figure 6 — Temporary supply overvoltages (a)			
	Temporary supply overvoltage up to 1.4Un lasting no more than 1s shall fulfil performance criterion B	Powered by stabilized PoE	N/A	
	Voltage V DC 1,4 Un Un $\underbrace{< 100 \text{ ms}}$ 1 s $\leq 100 \text{ ms}$			
	Figure 7 — Temporary supply overvoltages (b)			
13.4.3.3	Temporary supply dips Temporary supply dips down to 0.6Un not exceeding 0.1s shall not cause deviation of function (performance criterion A)	Powered by stabilized PoE	N/A	
	Voltage V DC Un 0,6 Un C 10 ms C 10 ms			



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I	Railway applications – Electronic equipment used on	rolling stock (EN: 50155:2017)	
CI.	Requirement-Test	Result-Remark	Verdict
13.4.3.4	Interruptions of voltage supply	Powered by stabilized PoE	N/A
	Regarding interruptions on supply voltage, there are three classes of equipment:		
	Table 13 — Interruptions of voltage supply classes		
	Class Requirements Duration of the interruption time Tint (See Figure 9)		
	S1 No performance criterion is requested but the equipment shall continue to operate as specified after the voltage interruption. NOTE As defined in 5.1.1.4, this test is not required.		
	S2 The equipment shall behave according 10 ms performance criterion A.		
	S3 The equipment shall behave according 20 ms performance criterion A.		
	Test shall be carried out at norminal voltage.		N/A
	For voltage interruption longer than specified within the class, equipment shall behave at minimum according performance criterion C.		
	Voltage V DC		
	<u>≤</u> 50 μs 10 ms or 20 ms <u>≤</u> 50 μs		
	Figure 9 — Interruption of supply voltage		
13.4.3.5	Supply change-over	Powered by stabilized PoE	N/A
	The equipment shall operate satisfactorily under conditions:		
	<ul> <li>Class C1: at 0.6Un during 100ms (without interruptions) Performance criterion A;</li> </ul>		
	<ul> <li>Class C2: during a supply break of 30 ms starting at Un. Performance criterion B</li> </ul>		
	Voltage V DC		
	<u>≤</u> 10 ms 100 ms <u>≤</u> 10 ms		
	Figure 10 — Supply change-over Class C1		
	Un 0 V ≤ 50 μs 30 ms ≤ 50 μs Time		
	Figure 11 — Supply change-over Class C2		



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	Railway applications – Electronic equipment used on rolling stock (EN: 50155:2017)						
CI.	Requi	rement-Tes	st	Result-Remark	Verdict		
13.4.4 Low	13.4.4 Low temperature start-up test						
	This te 2-1, te	est is carrie est Ad.	ed out in accordance with EN 60068	3-	Р		
	Equip a test	ment is pla chamber.	ced, without any voltage applied, in		Р		
	Equip tempe (T <sub>TEST</sub>	ment shall erature clas )shall be ta	be tested according to its operating s, low operating temperature ken from Table 1.	Class OT2 used according to manufacturer: - 40 °C	Р		
	Та	able 1 — (	Operating temperature classe	s			
		Class	Equipment operating temperature range (°C)				
		OT1	-25 to +55				
		OT2	-40 to +55				
		OT3	–25 to +70				
		OT4	-40 to +70				
		OT5	-25 to +85				
		OT6	-40 to +85				
	The e it, afte suffici stabili less th	quipment s er thermal s ent period o zation. In a nan 2 h.	hall be first conditioned by leaving tabilization of the chamber, for a of time in which to achieve thermal ny case, this period shall not be		Р		
	<ul> <li>At the end of this period the equipment shall be switched on and a performance check is carried out, keeping the equipment at the low temperature. After recovery, this performance check is repeated at normal room temperature.</li> <li>Test acceptance requirements: during and after the test, the equipment shall work as intended and within its specified limits (Performance criterion A)</li> </ul>			Performance check was passed under low temperature condition and normal room temperature condition.	P		
				n			
13.4.5 Dry I	neat te	st			•		
	This te 2-2, te	est is carrie est Be	d out in accordance with EN 60068	3-	Р		



Railway applications – Electronic equipment used on rolling stock (EN: 50155:2017)					
CI.	Require	ement-Test		Result-Remark	Verdict
	The temperature value for this test is dependent of the temperature class and the switch-on extended operating temperature class of equipment under test (table 1 and table 2)       °         Table 2 – Switch-on extended operating temperature classes         Class         Switch-on extended operating temperature classes         Class         Switch-on extended operating temperature classes         Class         Switch-on extended operating temperature classes		Class OT2 and ST2 used according to manufacturer: 55 °C, Test cycle C,	P	
	ST0	No switch-on extended operating temperature	Test cycle A		
	ST1	OTx +15 °C	Test cycle B		
	\$12	01x +15 °C	l est cycle C		
<b>13.4.5.2 -</b> Cycle A	the swit where t maximu	ched off equipment is placed in he temperature is progressively im operating temperature (T <sub>TEST</sub>	a chamber raised to the )	Class ST2	N/A
	Once this period equipm 6 h with max. op	he temperature has stabilised, li iod shall not be less than 2 h, th ent is switched on and left for a continuous operational check o perating temperature T <sub>TEST</sub>	n any case, en the time period of carried out at		
	The equipment is then allowed to cool to ambient temperature and a further performance test is carried out after the stabilization time.				
	Test ac test, the its spec	ceptance requirements: during a e equipment shall work as intenc ified limits (Performance criterio	and after the led and withir n A)		
<b>13.4.5.3-</b> Cycle B	the swit where t maximu	ched off equipment is placed in he temperature is progressively im operating temperature (T <sub>TEST</sub>	a chamber raised to the )	Class ST2	N/A
	Once the temperature has stabilised, In any case, this period shall not be less than 2 h, then the equipment is switched on and left for a time period of 6 h with continuous operational check carried out at max. operating temperature ( $T_{TEST}$ ).				
	once this test is complete, a continuous operation check is carried out with the 10 min over- temperature value. The equipment is then allowed to cool to ambient temperature and a further performance test is carried out after the stabilization time.				
	Test act test, the its spec	ceptance requirements: during a equipment shall work as intend ified limits (Performance criterio	and after the led and withir n A)		



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Railway applications – Electronic equipment used on rolling stock (EN: 50155:2017)				
CI.	Requirement-Test	Result-Remark	Verdict	
13.4.5.4- cycle C	The switched off equipment is placed in a chamber where the temperature is progressively raised to the extended operating temperature ( $T_{TEST}$ +15°C) according to the selected temperature class.	70 °C, 10 min. and 55 °C, 6 h; Performance check was passed under dry heat condition and normal room	Ρ	
	Once the temperature has stabilised, In any case, this period shall not be less than 2 h, then the equipment is switched on and continuous operation check are carried out at this extended operating temperature value for 10 min.	temperature condition.		
	Equipment is then allowed to cool to the max. operating temperature ( $T_{TEST}$ ) and continuous operation check last or a time period of 6 h.			
	The equipment is then allowed to cool to ambient temperature and a further performance test is carried out after the stabilization time.			
	Test acceptance requirements: during and after the test, the equipment shall work as intended and within its specified limits (Performance criterion A)			
13.4.6 Low t	emperature storage test		-	
	Where the equipment is to be subjected to temperatures less than its minimum operating temperature, then a low temperature storage test may be carried out. This test shall be carried out in accordance with EN 60068-2-1 (test Ab)		Р	
	Equipment without packaging is placed, without any voltage applied, in a test chamber.		Р	
	The temperature value for the test shall be -40 $^\circ\!\!\!{\rm C}$ and the time period after stabilization shall be 16 h minimum.			
	After recovery, a performance test shall be carried out at the ambient reference temperature.			
	Test acceptance requirements:	Performance check was	Р	
	After recovery, the equipment shall work as intended and within its specified limits (performance criterion A)	temperature condition.		
13.4.7 Cycli	c damp heat test	1	I	
	This test is carried out in accordance with EN 60068- 2-30, test Db variant 2.		Р	
	The equipment under test shall not be powered except during operational check.			
	Temperatures: + 55°C and +25°C			
	Number of cycles: 2			
	Time: (2 x24 )h			



I	Railway applications – Electronic equipment used on rolling stock (EN: 50155:2017)			
CI.	Requirement-Test	Result-Remark	Verdict	
	Test acceptance requirements: The results of all insulation and performance test (result after the first and second cycles) shall be within the specified tolerances and operation performance respectively.	Performance check was passed under Before and after the test. Operation check was passed under the rise in temperature	Р	
	Before and after the test (initial and final voltage withstand and insulation), the equipment shall work as intended and within its specified limits (Performance criterion A)	during the beginning of the second cycles at 35°C Insulation was passed under Before and after the test		
13.4.9 Insul	ation test			
13.4.9.1	The test shall be carried out on fully assembled parts of equipment, and/or complete equipments dependent upon the scope of supply.		Р	
	The test comprises two parts, an insulation measurement test (carried out before and after the voltage withstand test), and the voltage withstand test.			
	Insulation measurement shall be carried out at the integration level of equipment under test.		Р	
	Voltage withstand test shall be performed on concerned electronic equipment. Each equipotential area shall be defined and test against mechanical earth and against all surrounding equipotential areas.		Р	
	Insulation test against mechanical earth is not required for equipotential area formed by ELV circuits that have internal electronic 0V potential electrically connected to the mechanical earth.	Insulation test against mechanical earth is not required for ALARM terminal, internal electronic 0V potential electrically connected to the mechanical earth.	Ρ	
13.4.9.2	Insulation measurement test			
	The insulation resistance test shall be carried out at 500 V d.c. and the values recorded.	See appended table	Р	
	The test shall then be repeated after the voltage withstand test			
	Test acceptance requirements:			
	The minimum value of the insulation resistance after the withstand test shall be higher than 20MOhm. The equipment shall work as intended and within its specified limits after the insulation test.			
13.4.9.3	Voltage withstand test			



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CI.	Requirement-Test		Result-Remark	Verdict	
	The test shall be performed with AC (50 Hz or 60 Hz) or DC test voltage according to table 14.		See appended table	Р	
	i able 14 — i est voltages of volta	ge withstand test			
	Nominal battery voltage and/or I/O voltage	Test voltage			
	< 72 V DC or 50 V AC rms	500 V AC or 750 V DC			
	72 V DC ≤ V DC < 125 V DC or from 50 to 90 V AC rms	1 000 V AC or 1 500 V DC			
	125 V DC ≤ V DC < 315 V DC or from 90 to 225 V AC rms	1 500 V AC or 2 200 V DC			
	The test voltage shall be applied increasing the voltage amplitude and maintained at the specified Where part of the electronic equipality connected to a pow				
	part of the equipment shall be a dielectric tests as that circuit.	subject to the same			
	Test acceptance requirements	:			
	Neither disruptive discharge no occur. The equipment shall wo within its specified limits after the structure of the structur	or flashover shall rk as intended and ne withstand test.			
13.4.10 Salt	mist test		·		
	This test is carried out in accor EN 60068-2-11, test Ka.	dance with		N/A	
	Equipment is placed, without a a test camber.	ny voltage applied, in		N/A	
	The equipment should be tester which they are expected to be covers should be in position an arranged, as nearly as possible occupy in actual use.	ed in the manner in used, i.e. protective ad the equipment e, in the position it will		N/A	
	The test chamber shall be kept of the salt solution shall continu during the whole conditioning p recovery, operational check is	t closed and spraying be without interruption beriod of 48 h. After carried out.		N/A	
	Test acceptance requirements	:			
	- visual inspection;				
	<ul> <li>an operational check shall n damage. The equipment shall within its specified limit.</li> </ul>	ot show any failure or work as intended and			
13.4.11 Vib	ration and Shock test				



	Railway applications – Electronic equipment used on	rolling stock (EN: 50155:2017)	
CI.	Requirement-Test	Result-Remark	Verdict
13.4.11.1	The complete cubicle or rack together with its auxiliaries and mounting arrangements (including its shock-absorbing devices if the equipment is designed for mounting on such devices) shall be subjected to the tests indicated in EN 61373.		Р
	During the simulated long life testing the equipment shall not be operating; during the other tests the equipment shall be functional and its performance shall be monitored.		
13.4.11.2	Simulated long life testing	according to manufacturer	Р
	Test shall be carried out according to EN 61373: 2010, clause 9.	X axis, Y axis, Z axis RMS= 5.72 (m/s <sup>2</sup> )	
	Test acceptance requirements:	After test, the unit shows no	
	- no damage shall be visible after the test	visible damage. Function	
	<ul> <li>after the test, the equipment shall work as intended and within its specified limits.</li> </ul>	Check Pass.	
13.4.11.3	Shocking test	according to manufacturer	Р
	Test shall be carried out according to EN 61373: 2010, clause 10.	Vertical: ±50 m/s <sup>2</sup>	
	Half-sinusoidal shocks test shall be carried out on a powered functional equipment.	Transverse: ±50 m/s <sup>2</sup> Longitudinal: ±50 m/s <sup>2</sup>	
	Test acceptance requirements:	During and after test, the unit	
	- no damage shall be visible after the test	shows no visible damage. Function check Pass.	
	- during the test, the equipment is monitored and shall work as intended and within its specified limits. (Performance criterion A)		
13.4.11.4	Functional random vibration test	according to manufacturer	Р
	Test shall be carried out according to EN 61373: 2010, clause 8.	X axis, Y axis, Z axis RMS=	
	Test acceptance requirements:	During and after test, the unit	
	- no damage shall be visible after the test	shows no visible damage.	
	- during the test, the equipment is monitored and shall work as intended and within its specified limits. (Performance criterion A)	Function check Fass.	
13.4.12 End	losure protection test (IP code)		
	As electronic equipment is generally mounted either inside the body of the vehicle or in boxes outside (e.g. Locations 1, 2 and 3 according to Table C.1), there is no need to carry out enclosure protection tests, apart form exceptional cases;this has to be defined between the user and the supplier (EN 60529 may be used as a guide).		N/A
13.4.13 Stre	ess screening test		



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I	Railway applications – Electronic equipment used on rolling stock (EN: 50155:2017)			
CI.	Requirement-Test	Result-Remark	Verdict	
	The user may require an equipment stress screening test procedure to be applied to completed equipment or a part of it, for the purpose of eliminating dormant manufacturing or component defects.		N/A	
	The procedure may include:			
	-operation at elevated temperature;			
	—thermal cycling;			
	-vibration.			
	As appropriate to the equipment under consideration, the process, and the tests to be applied to the equipment, shall be agreed at the time of tender between involved parties.			
	To carry out this stress screening test, EN 61163-1:2016, B.2 may be used as a guide.			
13.4.14 Rapid Temperature variation test				
	The test specification and the test procedure shall be agreed between the involved parties.		N/A	



# Appended table (Test Results):

Table 13.4.3					N/A		
13.4.3.2 Supply variations test:							
Input voltage	Test condition		Duration	Performance criterion	Test result		
13.4.3.3 Temporary supply	overvoltag	je/dips					
Input voltage	Intervals	Test times	Test condition		Performance criterion	Test result	



13.4.3.4 interruption of voltage Supply tests:					N/A	
Input voltage	Intervals	Test times	Test condition	Class	Performance criterion	Test result
13.4.3.5 Supply change over test:					N/A	

Table 13.4.9.2         Insulation test before Voltage withstand test				Р
Insulation resistan	ce R between:	R (MΩ)	Required	R (MΩ)
POE terminal to metal enclosure		>100	20	)

Table 13.4.9.3     Voltage withstand test				Р
Test voltage applied between:		Test voltage (V)	Breako	lown
POE terminal to metal enclosure		500 Va.c.	No	)

Table 13.4.9.2	able 13.4.9.2 Insulation test after Voltage withstand test			Р
Insulation resistance R between: R (MΩ) Require			Required	R (MΩ)
POE terminal to metal enclosure		>100	20	)



## Photo documents:

Details of:



### Details of:



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