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Product Categories

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Related Applications



Automotive Electronics Test Solutions



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Video Download Description

SC-015 Dustproof Test Chamber (Sand Dust Test Chamber) is applied to physical and other related performance tests for electronic and electrical products, lamps, electrical cabinets, electrical components, automobiles, motorcycles and their parts and other products under simulated dust climate conditions. After the measurement, it is judged whether the performance of the product meets the requirements through verification, so as to facilitate the design, improvement, verification and factory inspection of the product. Comply meets

	IEC60529:1989 +A1:1999	+A2: 2013 <degrees of="" protection="" provid<="" th=""><th>ded by enclosures (IP Code)>,IEC60598-1, GB2423.37-89 (Test L: dust tes</th></degrees>	ded by enclosures (IP Code)>,IEC60598-1, GB2423.37-89 (Test L: dust tes	
Household Applicances Test Solutions	methods), GB4208, GB/T 4942.2-93(protective casing grade of low-voltage apparatus), GB7000.1 < Luminaires Part 1: General Requirements and Tests> 9.2.1, 9.2.2 and Figure 6, DIN40050 and IP5K0. It is applicable to the IP5X and IP6X dustproof test of the products.			
Solutions Solutions			- 26 - 60529 © IEC:1989+A1:1999 +A2:2013	
		13.4 Dust test for first characteristic n		
Plug and Switch Test Solutions	The test is made using a dust chamber incorporating the basic principles shown in figure 2 whereby the powder circulation pump may be replaced by other means suitable to maintain the talcum powder in suspension in a closed test chamber. The talcum powder used shall be able to pass through a square-meshed sieve the nominal wire diameter of which is 50 µm and the nominal width of a gap between wires 75 µm. The amount of talcum powder to be used is 2 kg per cubic metre of the test chamber volume. It shall not have been used for more than 20 tests.			
LED Driver Test Solutions	NOTE Health and safety regulations should be observed in selecting the type of talcum powder and its use.			
	Enclosures are of necessity in one of two categories:			
		Category 1: Enclosures where the normal working cycle of the equipment causes reductions in air pressure within the enclosure below that of the surrounding air, for example, due to thermal cycling effects.		
Mobile and Network Test Solutions	Category 2: Enclosures where no pressure difference relative to the surrounding air is present.			
		Category 1 enclosures:		
LEDs and Luminaire Test Solutions	The enclosure under test is supported inside the test chamber and the pressure inside the enclosure is maintained below the surrounding atmospheric pressure by a vacuum pump. The suction connection shall be made to a hole specially provided for this test. If not otherwise specified in the relevant product standard, this hole shall be in the vicinity of the vulnerable parts. If it is impracticable to make a special hole, the suction connection shall be made to the cable inlet hole. If there are other holes (for example, more cable inlet holes or drain-holes) these			
Related Technical Articles		shall be treated as intended for normal use	EC60529	
IP test standards and test requirements of Road Vehicles	Product Model:			
Introduction of dust-proof test equipment and how to judge for the test results	Model Number	Working Room Size (mm)	Remark	
The main differences between the LED driver standards ANSI / UL8750 and EN / IEC 61347- 2-13	SC-500	700*800*900	Single door structure	
	SC-800	800*800*800		
Basic Environmental Test for Luminaire According to IEC 60068	SC-010	1000*1000*1000		
The development, application and test standards of LED street lights in the Southeast Asian market	SC-015	1000*1500*1000	Double door structure	
	SC-020	1000*2000*1000		
AMA: LED Street Light above 3000K Bears More Health Risks	Specifications:			

IEC60598 General Requirements and Testing

Type of Lamp Caps

Health Risks

IEC 60529 (GB4208-2008) IP Protection Grade Waterproof and Dustproof test

LISUN Moves to New Office

LED Quality Testing Instruments

Related Successful Case

Germany – Installation and training for SC-015 Dustproof Testing Machine and JL-34 & JL-56 Waterproof Test Equipment

Costa Rica – Installation and training Integrating Sphere Test System, dustproof and waterproof test equipment, EMI/EMC test machine, etc.

Malaysia – Installation and training for dustproof and waterproof test machine, IK level tester

Columbia – Installation for waterproof & dustproof test, goniophotometer, temperature • Temperature range: RT+10~50°C

• Standard wire warp of metal net: 50um; Standard spacing between wires: 75um

• Test dust: dry talc powder; Talc powder dosage: 2~4kg/m; Dust reduction method: free dust reduction

• Total test time: 0~999H (adjustable); vibration time: 0~999H (adjustable); timing accuracy: ±1 second

• Vacuum: 0~10Kpa (adjustable); Pumping speed: 0~4800L/H (adjustable)

• Power supply of test samples: single-phase 220V/50Hz or 100V/60Hz

• Safety protection function: leakage protection, short circuit protection

• The shell is made of domestic high-quality steel plate, and the surface is sprayed with paint, which is beautiful and durable.

• The inner box, sample rack, etc. are made of stainless steel plates to ensure that they will not rust for a long time.

• There is a transparent observation window (toughened glass material) on the door, and an LED lighting lamp is installed in the box to facilitate the observation of the internal test situation.

• There is a device for replacing dust at the bottom of the device, which can easily 100% replace the used dust.

• A special device is installed to ensure that the dust does not stick to the wall and condense. The working time of the device is adjustable, and it can work automatically and alternately.

• There is a suction pipe in the box, which can complete the vacuum action on the sample (require the sample to reserve the suction hole position).

• Dustproof test chamber control system: 7-inch touch screen + Panasonic PLC. The dust blower, dust vibration and total test time can be controlled separately. This controller has the following various arbitrary setting control functions:

1. Dust blowing time (stop, blowing): can arbitrarily choose any of continuous and periodic dust blowing time to setting;

2. Vibration time: vibration and stop vibration time are automatically alternated;

3. Preset test time: the maximum test time is 99 hours and 59 minutes;

• Heating system: The circulating air duct is equipped with a heater to heat the dust to avoid dust condensation. The heat of the muffler mica sheet heating ring is safe and stable.

• Vacuum system: equipped with vacuum pump, vacuum pressure, air filtration, flow meter, pressure regulating triplet, connecting pipe.

