

Model KS-UV340A/B

Box type UV aging box

Technical Solutions

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- 1. Advanced factory, leading technology
- 2. Reliability and applicability
- 3. Environmental protection and energy saving
- 4. Humanized and automated system network management
- 5. Timely and perfect after-sales service system with long-term guarantee

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UV weather resistance tester KS-UV340A/B Product specification parameters



Box type

(The above pictures are for reference only, please prevail in kind)

Remark:

This UV aging tester contains irradiation intensity sensor, irradiation intensity size automatically adjusted, need to confirm the use of irradiation lamp type



Main functions of the equipment:

This product uses fluorescent UV lamps that can best simulate the UV spectrum of sunlight, and combines temperature control and humidity supply devices to simulate the sunlight (UV section) high temperature, high humidity, condensation, dark cycle and other factors that cause damage to materials such as discoloration, brightness, strength loss; cracking, peeling, chalking, oxidation, etc. Meanwhile, the synergistic effect between UV light and humidity makes the single light resistance or single humidity resistance of materials weakened. Or It is widely used for the evaluation of the weather resistance of materials.

UV weather resistance testing machine performance indicators and the composition of each system:

Model				
Sample placement area	Box type 1140*600*500 (mm)			
Sample template	1100*600*500(mm)Inside size sample			
size				
Shape space	About 1400*1750*750 (mm)W×H × D			
Center	70mm			
distance inside				
the lamp				

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Distance	50±3 mm		
between the			
test surface			
and the center			
of the lamp			
No. of nozzles	Top row 4pcs		
Spraying	70∼200Kpa adjustable		
pressure			
UV-B Lamp irradiation distribution map	Fluorescent UV Lamps vs. Daylight 1. Standard machine irradiation intensity 0 ~ 0.8W/m2.313nm adjustable		
UV-A	实时辐阻度光谱图		
Lamp irradiation distribution map	1.Standard machine irradiation intensity 0 ~ 0.85W/m2.340nm adjustable		
Lamp length	1220mm		
Lamp power	40W		
Lamp life	1600h or more		



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Number of	Top row of 8		
lamps			
Effective ≥ 600×210mm			
irradiation area			
Weight	80 kg		
Maximum	3 KW		
power			
Maximum	15A		
current			
	AC 220V single-phase two-wire + protection grounding; voltage allowable		
Power supply	fluctuation range ±10%V;		
conditions	Allowable fluctuation range of frequency 50±0.5HZ; TN-S mode power supply or		
and power	TT mode power supply		
supply	Protection grounding resistance less than 4Ω		
	The user is required to configure the corresponding capacity air or power switch		
	for the equipment at the installation site, and this switch must be independently		
	controlled for the use of this equipment		
Performance In	ndicators		
Environmental	The all the state of the state		
conditions of	The value measured under the conditions of ambient temperature of +25°C,		
use	relative humidity ≤85% and no specimen in the test chamber.		
	Irradiation temperature: $50\sim~70^{\circ}\mathrm{C}$		
Temperature	Condensation temperature: RT \sim 60 $^\circ\!$		
and humidity	Spraying temperature: Room temperature		
range	Relative humidity: condensation cycle ≥ 90% RH		
	Temperature resolution: 0. 01℃		
Main	Temperature deviation: ±1°C		
technical	Temperature uniformity: 2°C		
parameters			
	Temperature fluctuation: ±1℃		

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1.GB/T23987-2009/ISO 11507:2007 Artificial climate aging exposure of color and varnish coatings (UV) 2.GB/T14522-2008 artificial climate aging test method for plastics, paints and rubber materials for mechanical industry products Fluorescent UV lamp; 3.GB/T16422.3-2014/ISO4892-3:2006 Laboratory light source exposure test method for plastics Part 3 fluorescent UV lamp; 4.ASTM G154-2006		
2.GB/T14522-2008 artificial climate aging test method for plastics, paints and rubber materials for mechanical industry products Fluorescent UV lamp; 3.GB/T16422.3-2014/ISO4892-3:2006 Laboratory light source exposure test method for plastics Part 3 fluorescent UV lamp; 4.ASTM G154-2006		
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Toot month 5 ACTM C452		
Test meets 5.ASTM G153		
criteria 6.GB/T9535-2006/IEC 61215:2005 Crystalline silicon photovoltaic modules for		
terrestrial use - design qualification and sizing (10.10 UV pretreatment test		
section)		
7. The irradiance of the test chamber meets the requirements of ISO4892-1		
8. Automatic irradiation control system, irradiance adjustable, irradiator to meet		
the requirements of ISO4892-1		
9. Black plate thermometer/black scale thermometer to meet the requirements of		
ISO4892-1		
Irradiation temperature RT→+70°C≤45 min		
Heating rate Condensation temperature RT→+60 °C≤45 min		
Structural features		

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	The inner box of the machine is made of SUS304# stainless steel				
	The outer box of the machine is made of SUS304# stainless steel (cold-rolled				
	steel plate baking paint treatment is optional)				
	The irradiation lamp adopts uniform arrangement on both sides to ensure uniform				
	irradiation of the tested parts and obvious effect				
	Water tank depth 25mm, water depth can be controlled				
	The test sample frame is made of stainless steel welding				
	The test sample is fixed by spring buckle, easy to install				
Box	The bottom of the test chamber is installed with fixed casters and foot cups,				
structure	convenient for moving and positioning				
	Water supply mode can be selected from manual or automatic mode, easy to use				
	Special isolated irradiation heating device and air supply system to ensure				
	uniform heat in the test space				
	The surface of the test sample is directly composed of the inner wall of the test				
	chamber, condensation condensation more				
	Specially made spraying device and automatic nozzle, water pressure can be				
	adjusted				
	The lid of the box is two-way flip type, easy to open and close				
Cantrol Danal	Power switch, alarm, irradiation accumulator, irradiation current meter, irradiation intensity				
Control Panel	adjustment knob, controller				
Power					
distribution	Heat dissipation fan, distribution board, controller				
control cabinet					
Lamp					
arrangement					
method	ab l				
Indition					

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Irradiation heating system	Adopt scale-type heating tube, multi-wing centrifugal fan air circulation, temperature controller output control non-contact SSR, to achieve temperature balance, long-term stable operation				
Condensing	Water vapor heating method is used, and the P.I.D. controls the heating to				
heating system	achieve temperature balance.				
	Manual, automatic two kinds of water replenishment control system, only need to				
Hydration	connect the tap water pipe can be automatically controlled, easy to use				
system	Note: If the tap water is too much impurity or with acid and alkaline need to add a				
	filter in the water inlet				
Drainage	ainage Drain valve control device, manual drainage method				
system	Automatic overflow control system for water level				
	Adopt booster pump to control its spraying water pressure				
Spraying	Fully automatic control of its spraying time and spraying cycle				
system	Precise overflow device of water level				
Electrical contr	ol system				
	Imported liquid crystal display touch screen temperature controller Q-TEST				
	Separate controller irradiation temperature, condensation temperature, irradiation				
Controller	time				
	Condensation time, spraying time and working cycle April April				



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	1、Detection wavelength range: 200nm~480nm.			
	2、Irradiance measurement range: 0.4W/m2~1.6W/m2			
	3. Working temperature range: room temperature 70 degrees			
Irradiance	4、Sensitive area: Φ12mm			
meter / solar	5. Appearance size: 30*30*35mm			
eye (standard)	6. The illuminance sensor can measure and control the irradiation energy in real			
	time and feed back to the controller, which adjusts the PID control in real time			
	according to the set value to ensure that the set value and the actual value are			
	one to one.			
Temperature input mode	Human-machine interface, touch input			
	Available program volume: 120 groups maximum, 1 program can be combined by			
	1~99 segments			
	Available memory capacity: 1200 segments, repeatable commands: each			
Drogram	command up to 999 times, program slope setting can be set by the time axis, the			
Program	program can be set to link between the use, the production of the program to			
capacity and	adopt the talk type operation is simple			
control	With edit, clear, insert and other functions, 4 groups of time signal output control			
Turiction	(can control the object to be measured ON / OFF action)			
	With 9 groups of PID parameters setting, program execution with jumping and			
	holding function, display curve, data acquisition; date and time adjustment			
	function; key and screen lock (LOCK) function, can be connected to a computer			
Communicatio	RS-232 communication interface, can be used as a monitoring and remote			
n	control system, record test data			
Operation	Drawrom mathed / Constant value mathed			
method	Program method / Constant value method			
Setting	Chinago/English interface touch insert			
method	Chinese/English interface, touch input			
Setting range	Maximum temperature range upper and lower limit 5℃			
Display	Tomporature: 0.01°C: Time: 4min			
Resolution	Temperature: 0.01℃; Time: 1min.			

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Power failure memory function	Power failure recovery mode can be set as: hot start / cold start / stop				
Appointment opening function	Can be set at will to start the time, turn on the power after the time to automatically run the machine				
Temperature measurement body	PT100 type platinum resistance				
Curve recording function	With RAM with battery protection, it can save the set value of the device, the sampling value and the time of the sampling moment; the maximum recording time is 60 days (when the sampling period is 1.5min)				
Software usage environment	IBM PC compatible machine, P II or above CPU, 128M or above memory, Simplified Chinese Windows 2000 or Simplified Chinese Windows XP operating system				
Temperature control method	Anti-integral saturation PID, BTC balanced temperature control method (temperature test equipment)				
Safety protection	on devices				
Test chamber	Extreme over-temperature protection, water shortage protection				
Booster pumps	Water shortage protection, water pressure overload protection				
Heating System	Heater dry burn, abnormal water supply, abnormal drainage				
Power supply	Earth leakage protection, overload and short circuit protection				
Storage environment	The ambient temperature of the equipment should be maintained within 0 $^{\circ}\!$				
requirements					

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Installation site
requirements

Test box left and right and back side wall plate from the wall shall not be less than 600mm, the front distance from the wall shall not be less than 800mm equipment transportation, into the doorway or channel, elevator, etc., whether you can enter, so as not to affect the progress of your project.

Acceptance criteria and third-party testing

- 1. Acceptance criteria: technical indicators according to the "Technical Agreement" signed by both parties.
- 2. Acceptance method: formal acceptance at the site of the demand side.
- 3. Before leaving the factory, if the demand side needs to ask the third party (by the National Environmental Testing Equipment Quality Testing Center and issued a valid inspection report) to participate in the acceptance, the cost of which is borne by the demand side. If the first acceptance is not qualified, the cost will be borne by the supplier when the acceptance is carried out again after improvement by the supplier.
- 4. The customer entrusts the national environmental testing equipment quality testing center.

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Equipment List

numbe r	Name	Specification / Model	Brands	Remarks
<u>'</u> 1.	Test controller	Q-TEST	Riles	
2.	Test chamber	SUS304#Stainless steel welding	Homemade	
3.	Test chamber sealing lid	SUS304#Stainless steel processing	Homemade	
4.	UV lamp	40W	APLAS, USA/Q-LAB	Optional
5.	Ballast	015626	Sanxiong	
6.	Heat sink fan	JF12038HA2HSL	SUNON Taiwan	
7.	Temperature limiter	TS-320SB-C	Korea Rainbow	
8.	Heater tube	1.1KW	Taiwan Taitoku	
9.	Water Quality Filter		Three Views of Taiwan	
10.	Spraying device	Fan nozzle	Homemade	
11.	Spraying water pump	BJZ037	Lingxiao Pump	
12.	Solid State Relays	SSR-40A	Schneider France	
13.	AC Contactors	1810	Taiwan Andriy	
14.	Intermediate Relay	LY2N-J	OMRON Japan	
15.	Self-locking switch	R21	Taiwan Punic	
16.	Temperature Sensor	PT100	Songyang, Taiwan	
17.	Solenoid Valve	ZCA-DN15	Taiwan Juliang	
18.	Liquid level switch	FCH11PDD03P	Taiwan Vanyi	
19.	Sample Rack	Stainless steel processing	Homemade	
20.	Irradiation Regulator	680K 1/4W	Taiwan Tendency	
21.	Irradiation regulation module	SSR-40VA	Taiwan Yang Ming	
22.	Time accumulator	DHC3L	OMRON Japan	
23.	Water tank	Stainless steel welding	Homemade	
24.	Other	<u> </u>	Domestic quality	