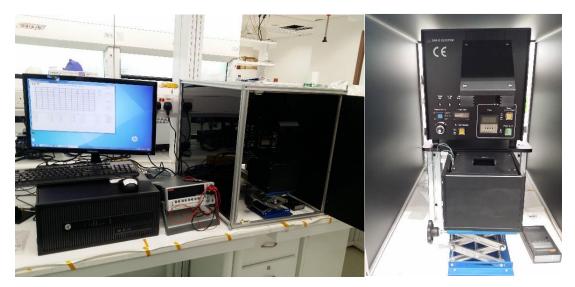
Solar Simulator

Manufacturer: SAN-EI ELECTRICAL CO., LTD

Model: XES-40S2-CE



Descriptions:

A Solar Simulator is a light source that approximates the illumination of natural sunlight. Solar simulators with various tailored spectral output are used to test a variety of samples including but not limited to solar cells, sun screen (SPF), materials photo-stability, and other samples (in-vivo or in-vitro) under controlled, repeatable, laboratory conditions.

Features:

Effective Irradiated Area	40x40mm	
AM filter	AM-1.5G	
Irradiance	1,000W/m² (1 SUN)	
Temporal Instability of Irradiance	< 1% (JIS / IEC / ASTM Class A)	
Irradiance Uniformity	< 2% (JIS / IEC / ASTM Class A)	
Spectral Coincidence	AM 1.5G (JIS / IEC / ASTM Class A)	
Lamp Life	Average 2,000 hours Guarantee Time 1,000 hours	
Certification	AAA class Certified JI 8912 / IEC 60904-9 (2007) /	
	ASIM E927-5	

Applications:

- 1. Inspection / measurement of solar cell / LCD
- 2. Solar simulated light source for optical science experiment
- 3. Solar resistance test of materials.

Specifications:

1. System configuration

Light Source Unit	XES-40S2-CE
Light Source Size	W250 x H276 x D566 mm
Light Source Weight	11 kg
Power Supply	Integrated inside light source unit
Filter	Am 1.5G
Lamp	150W Xenon Lamp, L150SS

2. Components

Shutter Unit	Manual or timer controlled (0.1s ~ 9990hrs)
	Drive system solenoid
Output Adjustment	Adjusting lamp power (60-100%)
Cooling Fan Motor	Auto shutoff after 20 minutes from shutting down of lamp
Interlock	Lamp off automatically when the cover is open
Overheating	Thermostat mentoring
prevention	90 ℃ inside power supply
	130 ℃ inside lamp housing
Lamp Operation Meter	Indicating operation time of current lamp
External Control	Lamp on/off output signal
	Shutter open output signal

3. Electronic Specifications

Rated Input	100-240V, 50-60Hz, 1Ф, 230W(Max)		
	*Allowable power fluctuation range is $\pm 10\%$ of rated input.		
Lamp Current	DC 4.5-7.5A		
Lamp Voltage	DC 20V ±2V		
Voltage Endurance	Input ~ Output between FG	AC 1,000 V	1 minute
	Output between FG	AC 500 V	1 minute
Insulation Resistance	Input ~ Output between F.G	DC 500V	above 20M
	Output between FG	DC 500V	above 20M

4. Operating Environment

Temperature	5∼35°C (RT value)
Humidity	20~85% (RH value No Condensation)

For training and operation of the equipment, please contact person in charge.