SPECIFICATIONS

△ △ △ Class Portable Solar Simulator

Model: XES-50S2



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1. Introduction

This solar simulator is designed for a small irradiated area (\Box 50mm) . Because the light source & power supply are on apparatus, this solar simulator has a small body and convenient to carry. All optical specifications are the grade of class A (JIS C8912 / IEC 60904-9 2007 / ASTM E927-5).

System Configuration

Light Source Unit	XES-50S2
Light Source Size	W204x H278 x D665 mm (including lens unit)
Light Source Weight	11.5kg
Power Supply	Inside Light Source Unit
Filter	AM 1.5G
Lamp	150w Xenon Lamp, L150NN
Accessories	AC power input cable Wrench for lamp fixing Operation manual

2. Components

Shutter Unit	Manual or remote controlled.
Output Adjustment	By changing the current lamp power (70~100%) .
Cooling Fan Motor	Auto-stop after the lamp extinguished over 20 minutes.
Interlock	Lamp shutoff automatically when the lamp exchange door is open.
Overheat Prevention Mechanism	80°C thermostat inside light source.
Lamp Hour Meter	Indicating operation time of lamp
Attenuators for irradiance (optional)	One slot for mesh filters (10%-80%).
Additional filters (optional)	One slot for additional filters (usable size: □50mm, t=2mm).

3. Optical Specifications

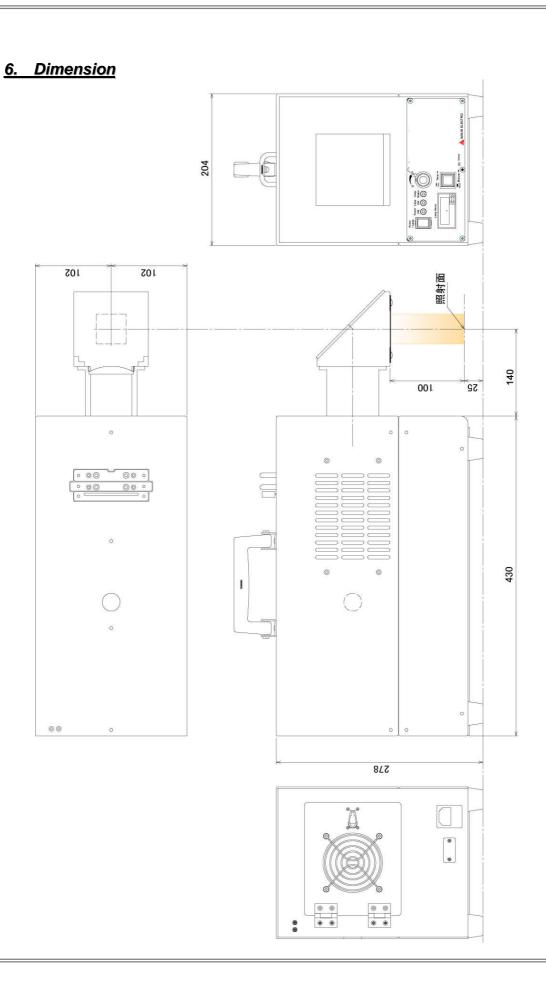
Effective Irradiated Area	□50mm
Working distance	100mm-120mm from lens
AM filter	AM-1.5G
Irradiance	1,000W/m² (1 SUN)
Temporal Instability of Irradiance	< 1% (JIS / IEC / ASTM Class A)
Irradiance Uniformity	< 2% (JIS / IEC / ASTM Class A)
Spectral Matching	AM 1.5G within ±15%
	(JIS / IEC / ASTM Class A)
Lamp Life	Average 1,000 hours

4. Electric Specifications

Rated Input	AC200V –240V, 50/60 Hz 1 φ 320w(Max)
Lamp Voltage	DC24±1V
Lamp Current	DC8.0±0.5A
Insulation Resistance	DC 500V above 20M Ω
Voltage Endurance	Input ~ Output between F.G AC 1,000 V 1 minute Output ~ between FG AC 500 V 1 minute

5. Operating Environment

Temperature	20~30°C (RT value)
Humidity	20~85% (RH value No Condensation)



8. Warranty

Warranty period covers one year after delivery with a service time (accumulated lamp lighting time) less than 1,000 hours.

Should incident or malfunctioning occur due to design or manufacturing defects of our company within the above mentioned warranty period, compensation is provided for repair or replacement of the malfunctioning parts only.

Please clearly indicate the details of the claimed malfunctions and ship the device to our company.

The warranty does not cover the following items:

- 1) Accidents or malfunctions occur as a result of wrongful usages not covered in this manual.
- 2) Malfunction or accidents resulted from modification unauthorized by SAN-EI electric Co., Ltd.
- 3) Malfunction or secondary damages from natural or man-made calamities.
- 4) Damage compensations for accidents or malfunction.
- 5) Damage compensations for patent infringement by users operating this device.