SPECIFICATIONS



△ △ △ Class 150W Solar Simulator

Model: XES-40S2-CE



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1. Introduction

This solar simulator is designed for a small size cell (effective irradiated area 40mm). 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-40S2-CE	
Light Source Size	W250x H276 x D566 mm	
Light Source Weight	11kg	
Power Supply	Inside Light Source Unit	
Filter	AM 1.5G	
Lamp	150w Xenon Lamp, L150SS	
Accessories	AC Power Input Cable 1pc Remote Control Cable 1pc Operation Manual 1pc	

2. Components

Shutter Unit	Manual or timer controlled (0.1 S ~ 9990 Hrs) Drive System: Solenoid
Output Adjustment	By changing the current lamp power(60 ~ 100%)
Cooling Fan Motor	Auto-stop after the lamp extinguished over 20 minutes
Interlock	Lamp shutoff automatically when the cover is open
Overheat Prevention Mechanism	90°C thermostat inside power supply 130°C thermostat inside lamp house
Lamp Hour Meter	Indicating operation time of lamp
External Control	Lamp on output signal Lamp off output signal Shutter open output signal

3. Electronic Specifications

Rated Input	100-240V, 50-60Hz, 1 , 230W(Max) *Allowable power fluctuation range is ±10% of rated input.	
Lamp Current	DC 4.5-7.5A	
Lamp Voltage	DC20V ± 2V	
Voltage Endurance	Input ~ Output between FG Output between FG	AC 1,000 V 1 minute AC 500 V 1 minute
Insulation Resistance	Input ~ Output between F.G Output between FG	DC 500V above 20M DC 500V above 20M

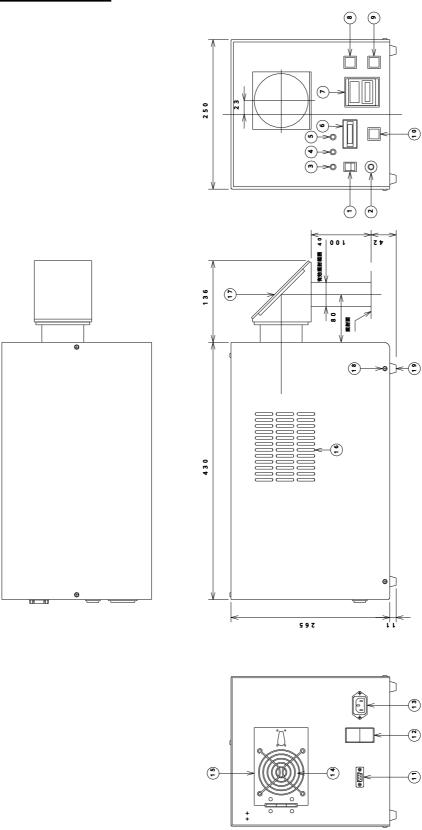
4. Optical Specifications

Effective Irradiated Area	40mm
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

5. Operating Environment

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

6. Dimension



7. Warranty

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

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

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

The warranty does not cover the following items:

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