



Photo Emission Tech., Inc.

862 Patriot Drive, #F, Moorpark, CA 93021 USA

Tel: (805) 482-5200 Fax: (805) 482-5252

Email: pet@photoemission.com

SOLAR SIMULATORS MODEL # SS100AAA

SS100AAA-EM ELECTRO-MECHANICAL SYSTEM FEATURES

- Light intensity feedback for stable output intensity
- **Electro-Mechanical Controller**
- Lamp life display
- External lamp alignment with lamp on
- Manual/Automatic/External/Remote shutter control
- Forced air cooling
- Lamp Life Meter
- Lamp Current Meter
- Selectable and adjustable constant intensity or constant power mode
- Safety Interlock override LED
- Over Temperature Warning LED
- Shutter Status Indicator
- Lamp status indicator
- One (1) year factory warranty



STANDARD ELECTRO-MECHANICAL (EM) SYSTEM

Specifications are subject to change without notice



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SOLAR SIMULATORS MODEL # SS100AAA

SS100AAA-TP TOUCH PANEL SYSTEM FEATURES

- Light intensity feedback for stable output intensity
- **Computer based Controller**
- Manual / automatic shutter control
- External lamp alignment with lamp on
- Manual/Automatic/External/Remote shutter control
- Forced air cooling
- Lamp life display
- Selectable and adjustable constant intensity or constant lamp current
- Safety Interlock override warning
- Shutter Status Indicator
- Lamp status indicator
- **Remote Trouble Shooting via Internet**
- One (1) year factory warranty



OPTIONAL TOUCH PANEL (TP) SYSTEM

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SOLAR SIMULATOR MODEL # SS100AAA

SS100AAA-EM & SS100AAA-TP TECHNICAL SPECIFICATIONS

FEATURE DESCRIPTION	SPECIFICATION
Type of lamp	Xenon Short Arc
Lamp Power	500 W
Max. Illuminated area	3.94" (100mm) x 3.94" (100mm)
Light Source	Steady State
Air Mass	AM1.5G Standard: AM1.5D or AM1 optional
Lamp lifetime	1,500 Hours
Adjustment Range of light intensity	100 mW/cm ² +/- 15%
Typical Spectral Range	250nm - >2,200nm
Simulator Class*	AAA
Spectral Match to all intervals*	±25% or better
Spatial Non-uniformity of irradiance*	≤ 2% or better
Short Term Temporal Instability (STI)*	≤ 0.5% or better
Long Term Temporal Instability (LTI)*	≤ 2% or better
Dimensions (Height x Width x Depth)	50.6" (1,285mm) x 14.5" (368mm) x 20.8" (529mm)
Weight	65 Lbs. (29.5 Kg)
Optimum Working Distance	11.4" (290mm)
Phase/Voltage/Frequency	Single Phase/110-220AC Volts/50-60Hz
Max. Power Consumption (W)	1.0 KVA

*MEETS CLASS A REQUIREMENTS OF ASTM E927-2010, IEC60904-9 Edition 2.0 2007-10 and JIS C 8912-1998: amendment 1-2005 & Amendment 2-2011