



# Photo Emission Tech., Inc.

862 Patriot Drive, #F, Moorpark, CA 93012 USA

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

Email: [pet@photoemission.com](mailto:pet@photoemission.com)

## **SOLAR SIMULATORS MODEL # SS300AAA**

### **SS300AAA-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 # SS300AAA**

### **SS300AAA-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 # SS300AAA

### SS300AAA-EM & SS300AAA-TP TECHNICAL SPECIFICATIONS

<b>FEATURE DESCRIPTION</b>	<b>SPECIFICATION</b>
Type of lamp	Xenon Short Arc
Lamp Power	3,000 W
Max. Illuminated area	11.81" (300mm) X 11.81" (300mm)
Light Source	Steady State
Air Mass	AM1.5G Standard: AM1.5D or AM1 optional
Lamp lifetime	1,000 Hours
Adjustment Range of light intensity	100 mW/cm <sup>2</sup> +/- 15%
Typical Spectral Range	250nm - >2,200nm
Simulator Class*	<b>AAA</b>
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)	121.5" (3,086mm) x 26.7" (678mm) x 32.7" (831mm)
Weight	850 Lbs. (385.5 Kg)
Optimum Working Distance	35.2" (894mm)
Phase/Voltage/Frequency	Single Phase/220VAC/50-60Hz
Max. Power Consumption (W)	4,000 W

\*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