



# Photo Emission Tech., Inc.

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## SOLAR SIMULATOR MODEL # SS300AAA

### FEATURES

- Light intensity feedback for stable output intensity
- Safe lamp alignment mechanism. Alignment with lamp off.
- Lamp life hour meter
- Manual / automatic shutter control with programmable shutter timer 0.1 sec. to 999 sec.
- External shutter control
- Forced air cooling
- Light intensity meter
- Lamp current meter
- Selectable and adjustable constant intensity or constant lamp current
- Over voltage warning LED
- Over current warning LED
- Shorted Lamp warning LED
- Safety Interlock override LED

### TECHNICAL SPECIFICATIONS

<i>FEATURE DESCRIPTION</i>	<i>SPECIFICATION</i>
<b>LIGHT SOURCE UNIT</b>	
Type of lamp	Xenon Short Arc
Lamp Power	5,000 W
Max. Illuminated area	11.81" (300mm) x 11.81" (300mm)
Light Source	Steady State
Spectrum	AM1.5G Standard: AM0 or AM1 optional
Lamp lifetime	1000 Hours
Adjustment Range of light intensity	100 mW/cm <sup>2</sup> +/- 15% (AM0:136.5 mW/cm <sup>2</sup> +/- 15%)
Simulator class as per ASTM E927	<b>A</b>
Spectral Match as per ASTM E927	+/-25% or better
Non-uniformity of irradiance as per ASTM E927	≤3% or better
Temporal Stability as per ASTM E927	≤2% or better
Dimensions (Height x Width x Depth)	94.7" (2,405mm) x 36.1" (917mm) x 79.7" (2,025mm)
Weight	330 Lbs. (150 Kg)
<b>POWER SUPPLY UNIT</b>	
Phase/Voltage/Frequency	Three Phase/220 Volts/50-60Hz
Max. Power Consumption	10.0 KVA
Dimensions (Height x Width x Depth)	39.4" (1,000mm) x 26.8" (680mm) x 23.6" (600mm)
Weight	330 Lbs. (150 Kg)