



# Photo Emission Tech., Inc.

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## SOLAR SIMULATOR MODEL # SS50AAA

### 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

<b>FEATURE DESCRIPTION</b>	<b>SPECIFICATION</b>
<b>LIGHT SOURCE UNIT</b>	
Type of lamp	Xenon Short Arc
Lamp Power	180 W
Max. Illuminated area	1.97" (50mm) x 1.97" (50mm)
Light Source	Steady State
Air Mass	AM1.5G Standard: AM0 or AM1 optional
Lamp lifetime	1000 Hours
Adjustment Range of light intensity	100 mW/cm <sup>2</sup> +/- 15%
Simulator Class	<b>A</b>
Spectral Match to ASTM E927	±25% or better
Non-uniformity of irradiance as per ASTM E927	≤2% or better
Temporal Stability as per ASTM E927	≤2% or better
Dimensions (Height x Width x Depth)	29.1" (740mm) x 11.8" (300mm) x 14.2" (360mm)
Weight	53 Lbs. (24 Kg)
<b>POWER SUPPLY UNIT</b>	
Phase/Voltage/Frequency	Single Phase/110-220 Volts/50-60Hz
Max. Power Consumption (W)	0.8 KVA
Dimensions (Height x Width x Depth)	8.3" (210mm) x 19.7" (500mm) x 15.8" (400mm)
Weight	57 Lbs. (26 Kg)