



# Photo Emission Tech., Inc.

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## SOLAR SIMULATOR MODEL # SS200AAA

### 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                                    | 2,000 W   |
| Max. Illuminated area                         | 7.87" (200mm) x 7.87" (200mm)                     |
| 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%                    |
| 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)           | 43.7" (1,110mm) x 21.3" (540mm) x 41.3" (1,050mm) |
| Weight  | 308 Lbs. (140 Kg)                                 |
| <b>POWER SUPPLY UNIT</b>                      |   |
| Phase/Voltage/Frequency                       | Three Phase/110-220 Volts/50-60Hz                 |
| Max. Power Consumption                        | 5.0 KVA   |
| Dimensions (Height x Width x Depth)           | 31.5" (800mm) x 23.6" (600mm) x 27.6" (700mm)     |
| Weight  | 308 Lbs. (140 Kg)                                 |