SUNLIGHT SIMULATOR
FOR PHOTOVOLTAIC CELL RESEARCH

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ABSTRACT

This article presents 1000 W metal halide discharge lamp. The chemical composition of the plasma discharge and the discharge process conditions have been chosen so that the relative spectral distribution of the lamp was in line with the solar spectrum at sea level in the temperate zone. The lamp working with an electronic ballast – high-frequency ignition, is designed to assess the performance of photovoltaic cells.

Keywords: solar, solar simulator, photovoltaic cells, spectral distributions, the coefficient of air mass (AM)