



Components for Sun Simulation Systems (SunSim)

System-Features

- 8 kW maximum power
- Modular design
- Compact design
- Individual combination

Advantages

- High flexibility
- High light output
- Small footprint
- Cost savings

As an alternative to our turnkey solutions we offer a cost- and time-saving alternative to our plant engineering and manu-facturing customers, which act as an integrator or general contractor. Standard components are integrated into e.g. climate chamber manufacturers own chambers and electrical cabinets. Consequently planning, design and production are from a single source and manufacturing time and – costs are significantly reduced. Needless to say, that we support our customers in all questions regarding lamp positioning, integration, control and interfaces.

Bulb

Most of the norms prescribe the use of HMI bulbs. Their spectrum is similar to the one from natural sunlight, the so called global radiation. Common power class of those double ended bulbs are 2500 W and 4000 W. The bulbs can be dimmed between 50 % and 100%. Cold and hot restart is possible. The bulb lifetime is approx. 1000 h, depending on the environmental conditions and number of ignitions.

Filterglass

The generated spectrum is the result of bulb and filterglass. The most common outdoor-spectrum is produced by H2 filter. It is transparent to UVB and UVA irradiation as well as visible light and IR-irradiation. The indoor spectrum is pre-scribed for test conditions e.g. behind car glass or window glass. This spectrum is produced by the so called H1 filter. It is transparent to UVA irradiation, visible light and IR- irradiation.

Floodlight SFL

The lamps are made of robust housing with extruded profile and aluminum sheet. The ignitor is integrated, thermally insulated and easy to be exchanged. The bulb can easily be changed tool-free from the front side. Due to design they are perfectly suitable for use in climatic chambers and wind tunnels. The lamp housing design guarantees an effective dissipation of produced heat. Thereby the lamps do not need forced cooling e.g. muffin fans. The lamps are available from 2000 W to 4000 W. Special application lamps, such as temperature controlled lamps, are available.

Electronic Power Supply (EPS)

The EPS 25 C-HMI / 40 C-HMI / 80 C-HMI* is an electronic power supply with a maximum power of 2.5 kW up to 8.0 kW. It is specifically developed for the use with HMI bulbs. The very compact design allows minimum floor space of the electrical cabinet. The EPSs are mounted on mounting plates and this in turn allows the use of 600 mm deep elec-trical cabinets. Accessibility from both sides is not required.

* 8 kW – boost power for 15 seconds