SolarConstant MHG MIL Specially designed for simulation of solar days



Features

- Multi-MHG lamp concept (Metal Halide Global)
- Good match to natural solar radiation
- Meets standard MIL-STD-810H and other
- Premium reflectors for best spatial uniformity
- Modular design for customized solar systems of any size

Sunlight can have adverse effects on materials, initiating and accelerating the degradation process as it interacts with temperature, moisture and other environmental effects. A key to the success of solar environmental test equipment is the quality of the solar simulation itself. Key criteria for high quality are a realistic light spectrum as well as optimum uniformity on the target object.

The SolarConstant Series offers luminaires based on metal halide global technology for high-class solar simulators. The modular design combined with a unique multi-lamp concept



makes the SolarConstant MHG MIL unit ideal for solar simulators of any size. Special reflectors guarantee high uniformity on the target area. For each new custom design, Atlas will determine by means of professional simulation both the lowest number of required SolarConstant MHG MIL units and the ideal positioning.



Especially useful for demanding MIL-STD-810H method 505.7 (Procedure I) - determination of heat produced by 24-hour cycles of solar radiation. Further for agro-science requiring diurnal cycles; e.g. plant growth studies and others.









Technical Information Luminaire

Lamp	MHG 4000 W
Average lifetime	750 h
Spectrum	Global radiation CIE241
Outdoor Filter (ODF)	UV cut-on ca. 290 nm
Indoor Filter (IDF)	UV cut-on ca. 320 nm
Ambient temperature	-10 °C - +60 °C
	(no condensation)
Dimensions (B x H x T)	524 mm x 680 mm x 830 mm
Weight	50 kg

Technical Information EPS Module

Connection	3 NAC 400 V, 50/60 Hz, 723 kVA
Output power	2300 to 4600 W
Protection system	Protected against open circuit; short circuit, max. 50 A
Ambient temperature	10-32 °C (no condensation)
Relative humidity	10-95 % (no condensation)
Dimensions (B x H x T)	19" x 3HE x 480 mm
Weight	21,5 kg

Atlas Material Testing Technology LLC (p) +1.773.327.4520 (f) +1.773.327.5787 Atlas Material Testing Technology GmbH (p) +49.6051.707.140 (f) +49.6051.707.149 E-Mail: atlas.info@ametek.com www.atlas-mts.com Specifications, features and standards are subject to change without notice.

© 2024 Atlas Material Testing Technology GmbH All rights reserved. Printed in Germany 01/24. Publication No. 56352878

