



HIGH-S-LIGHT 4000/2500 BOOST ***with PNEUMATIC SHUTTER SYSTEM***

Due to the use of modern techniques the system offers

- **No Heatload on the testsample**
- **High luminous efficiency of > 100lm/W**
- **Daylight colour temperature of 5.600 to 6.000K**
- **Flicker-free light, Modulation $\pm 1\%$**
- **High illuminance due to the BOOST-SYSTEM**
- **Stabilized power output, even when mains varies**

Especially for the application of High-Speed Photography & Video on Airbag Modul Tests, this Lighting System has been designed.

New test specifications require to perform the deployment test of airbag modules at test temperatures down to -35°C .

The light wich is necessary to illuminate the test area so to enable HS photography and video will normally causes a heating of the airbag module within a short period of time. Thus the tolerance of the module temperature cannot kept. In the past the HIGH-S-LIGHT Systems had been operated using the Standby (50%) and BOOST (200%) mode. These measures offered already good control on test sample's temperatures, but not sufficient for the low (-35°C) temperature requirements.

The new HIGH-S-LIGHT PS System now offer the possibility to direct the light to the airbag module only in the needed sequence of time.

The main functions therefore are integrated into the overall test sequence control.

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The essential components of the system are, the luminary, electronic power supply, the EPS-module and the control system. Additionally, to meeting the new requirements, this system is equipped with a shutter system to close the luminary.

Function within a test cycle:

Continuous control of shutter position (closed/open)

Start signal for light when shutters are closed

Lights operate in the Standby mode, fixtures also cooled by compressed air

Simultaneous signal for BOOST and shutter open

Performance of the test within the next seconds

Technical information

Luminary/Lamp

Power	High-S-Light 2500: 2500W (5000W) High-S-Light 4000: 4000W (8000W)
Colour temperatur	5.600 to 6.000K
Efficiency	102lm/W (nominal)
Average lifetime	500h/1.500 starts
Dimension	540x420x380mm (WxHxD)
Weight	25kg

Technical information

EPS-Module

Mains	400V 3PH/Neutral/Ground, 50Hz
Operating conditions	10 to 35°C
Protective measures	open circuit control current limit (max. 50A) over temperature protection
Output power	High-S-Light 2500: 1.200 to 5.000W High-S-Light 4000: 2.000 to 8.000W
Fluctuation	± 1%
Shape of curve	square-wave, bipolar
Light modulation	± 1%
Efficiency	90%
Dimension	19", 4HE, 480mm deep
Weight	24kg

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