



High Noon – 24/7.

HMI® 18000 W/SE/GX51

HMI® 12000 W/SE/GX51

with new base



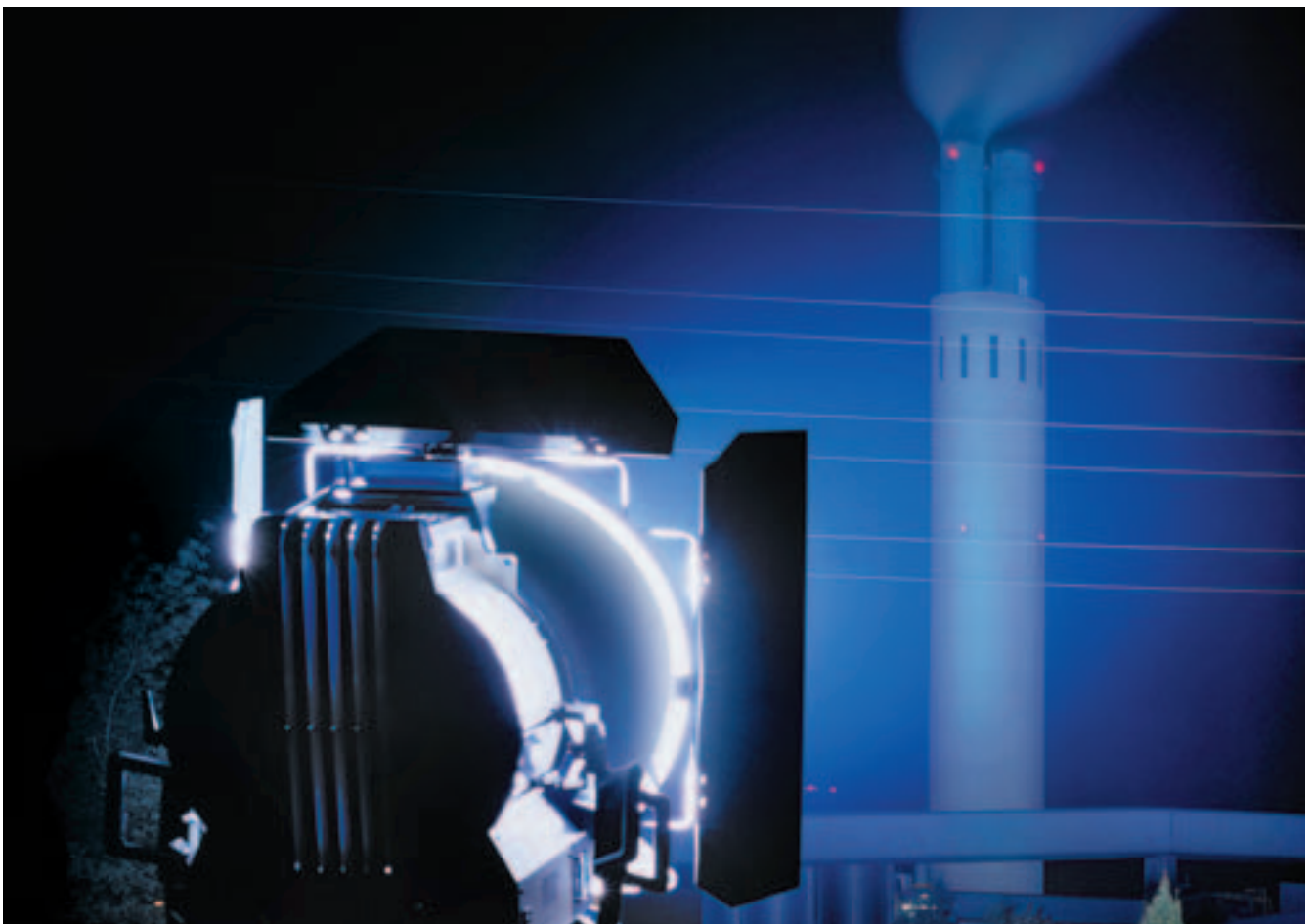
SEE THE WORLD IN A NEW LIGHT

OSRAM

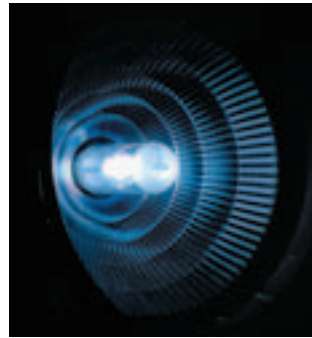


HMI® 18000 W/SE/GX51 and HMI® 12000 W/SE/GX51 – more power and new, robust 2-inch GX51 base.

The new HMI® 18000 W/SE/GX51 and HMI® 12000 W/SE/GX51 are the most powerful single-ended metal halide lamps with outer bulbs in the OSRAM range. These compact light sources offer extremely high luminous flux and exceptionally long life. Thanks to their innovative OSRAM XS technology, they can withstand very high temperatures (up to 450 °C at the pinch point). The new, extremely robust GX51 base has been developed to meet the particularly high demands of modern film and TV lighting, especially when needed in outdoor applications. Like all HMI® lamps, these new stars are impressive for their daylight temperature of 6000 K, high color rendering index of more than 90 and excellent luminous efficacy.



HMI® 18000 W/SE/GX51 and 12000 W/SE/GX51 turn night into day.



HMI® 18000 W/SE/GX51 and 12000 W/SE/GX51 in action.

Turn night into day – any time

Our new lighting heroes provide perfect light whatever the time – day or night. With luminous fluxes of 1.6 and 1.15 million lumens, they replace the sun and create ideal daylight conditions. HMI® 18000 W/SE/GX51 and HMI® 12000 W/SE/GX51 really show their strengths in large-scale outdoor location shooting – such as their daylight color temperature (6000K), outstanding luminous efficacy (almost 100lm/W) and excellent color rendering ($R_a > 90$).

The new GX51 base – robust and reliable

The new base design is characterized by the more robust neck with a larger diameter and larger pin spacing (50.8 mm/2"), which enables these high-performance lamps to be more firmly attached in appropriate holders. With appropriate holder designs, the lamps can now also be held more securely by the ceramic necks on their bases – while the base pins are used only to provide electrical connection (ideally as floating contacts). The result is a sturdy system that is more resistant to mechanical stress. It is therefore much better at dealing with the tough conditions on sets than any other system so far. Handling is much easier and lamp failures are reduced.

Long life. Excellent hot restart capability.

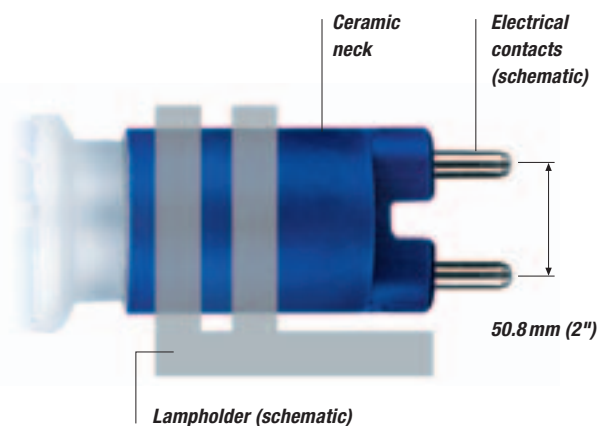
HMI® 18000 W/SE/GX51 and HMI® 12000 W/SE/GX51 will provide an average of 300 hours of reliable work on the set. That's around 15 % more than their competitors in this performance class. With its improved insulation effect, the robust base better withstands the high ignition voltages involved in hot restarts.

Powerful light and ease of handling – major benefits at a glance

HMI® 18000 W/SE/GX51 and HMI® 12000 W/SE/GX51 combine high performance and optimal design with the outstanding properties usually associated with HMI® lamps:

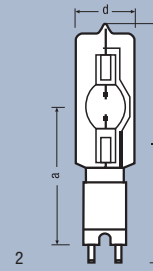
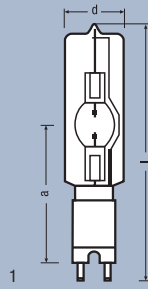
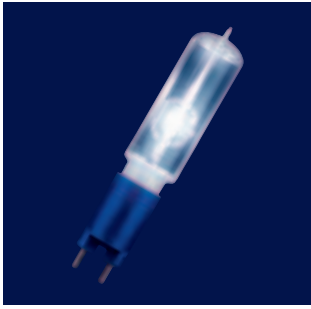
- Single-ended base for reliable operation and ease of handling
- High mechanical robustness
- Long service life of 300 hours
- Enormous luminous flux of 1,600,000 and 1,150,000 lm
- Excellent hot restart capability
- Outstanding luminous efficacy (~100lm/W) and excellent color rendering ($R_a > 90$)
- Color temperature of 6000K

HMI® 18000 W/SE/GX51 and HMI® 12000 W/SE/GX51 are also impressive because they keep cool. Thanks to innovative eXtreme Seal technology from OSRAM, they can withstand temperatures of up to 450 °C at the thermally sensitive areas of the power lead penetrations.



Proposal of GX51 lamp holder/contact scheme

TECHNICAL DATA



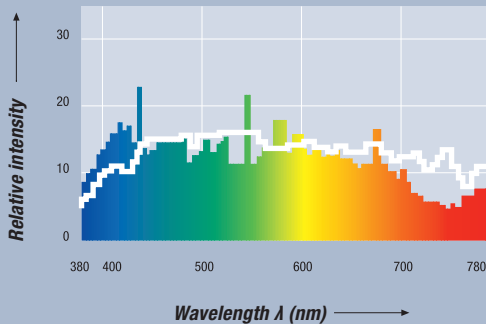
Reference

HMI® 18000 W/SE/GX51

HMI® 12000 W/SE/GX51

Rated wattage	18,000 W	12,000 W
Lamp voltage	225 V	160 V
Operating current (AC)	88 A	84 A
Ignition voltage (cold/hot)	20/65 (max. 70) kV	20/65 (max. 70) kV
Luminous flux	1,600,000 lm	1,150,000 lm
Color temperature	6,000 K	6,000 K
Color rendering index R _a	> 90	> 90
Electrode gap (cold)	44 mm	27 mm
Lamp length l ₁	max. 495 mm	max. 460 mm
Bulb diameter d	100 mm	100 mm
LCL (a)	260 mm	260 mm
Average lamp life	300 h	300 h
Base	GX 51	GX 51
Max. permissible base temperature	450 °C at the Mo cup/with "eXtreme Seal" technology	450 °C at the Mo cup/with "eXtreme Seal" technology
Cooling	Convection	Convection
Burning position	S 135 (vertical ± 135°)	S 135 (vertical ± 135°)
Fig. no.	1	2

White curve: daylight in Central Europe



HMI® 18000 W/SE/GX51 and 12000 W/SE/GX51 – good color rendering.
Daylight. Brilliant OSRAM quality.

High-quality single-ended HMI® lamps with outer bulbs from OSRAM also available from 200 to 12000 W:

- In standard designs: 200 W/SE, 250 W/SE, 400 W/SE, 575 W/SE, 1200 W/SE
- With innovative eXtreme Seal technology: 2500 W/SE, 4000 W/SE, 6000 W/SE, 12000 W/SE

OSRAM GmbH

Head Office

Hellabrunner Strasse 1
81543 Munich
Fon: +49 (0) 89-62 13-0
Fax: +49 (0) 89-62 13-2020
www.osram.com
catalog.myosram.com/EN

Display/Optic Division

Nonnendammallee 44
13625 Berlin
Fon: +49 (0) 30-33 86-21 74
Fax: +49 (0) 30-33 86-23 59
E-Mail: info@osram.com

OSRAM U.S./NAFTA

Display/Optic Division

100 Endicott Street
Danvers, MA 01923
Fon: 888-677-2627
Fax: 800-762-7192