HALOPIN®, HALOPAR®
Innovative, versatile and safer.

Mains voltage halogen lamps from OSRAM

SEE THE WORLD IN A NEW LIGHT

OSRAM

When mains voltage halogen lamps come to the end of their lives there is a chance that internal arcing will occur in the lamp. The lamp must be designed so that this arcing does not cause it to shatter.

Some commercially available mains voltage halogen lamps have a higher than average risk of shattering, but the risk is greatest among those with a crude filament assembly, such as cheap imports from the Far East. Shattering lamps can cause considerable injury and damage.

Innovative mains voltage halogen lamps from OSRAM however are always a safe choice.

- Our lamps meet the strict requirements of the IEC 60432-2 safety standard; OSRAM is a highly professional lighting company with all the necessary technical expertise.
- With high quality products from OSRAM you are also protecting yourself from any warranty problems that may arise from claims of non-compliance with the prescribed standards.
- What's more, some of the copies infringe OSRAM's patent rights.

For more information on innovative lamps and luminaires from OSRAM go to www.osram.com

Standards are the rule at OSRAM

HALOPIN® from OSRAM. The small halogen lamps for mains voltage

HALOPIN® lamps provide users with brilliant white halogen light without the need for transformers. Manufacturers have greater freedom to design elegant halogen luminaires, not least because the lamps comply with the IEC 60432-2 safety standard, but are safeguarded against the risk of the lamps shattering at the end-of-life.

OSRAM solves the failure proble

Conventional design with inadequate fuse or without fuse

Start of arcing

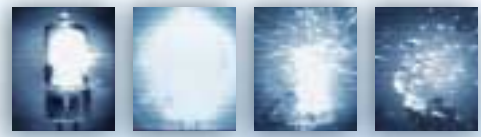
This diagram shows the obvious difference between the OSRAM HALOPIN® with integral safety fuse and a pin-base lamp of conventional design without fuse when both reach the end of their lives: In the HALOPIN® lamp the arc is gently and safely "extinguished" after about 0,7 ms. A lamp from a competitor suffers from a prolonged pulsating arc and finally explodes at the pinch-seal with considerable violence – after approx. 7 ms.

OSRAM HALOPIN® with integral safety fuse

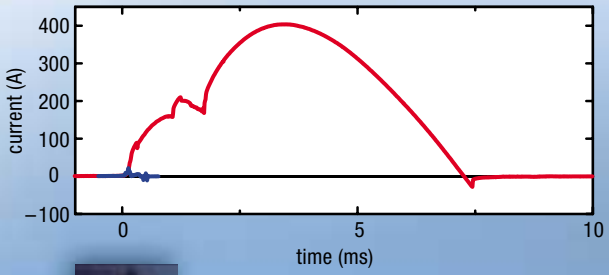
Start of arcing

- The smallest halogen mains voltage lamps, made by OSRAM.
- Simple operation on mains voltage
- With integral safety fuse: meet the safety requirements of IEC 60432-2
- Approved to IEC 60598-1 for use in open luminaires
- Robust filament support thanks to bulb-pinch technology
- Comply with the strictest UV protection thresholds (erythema/NIOSH) thanks to UV-FILTER quartz
- Easy fitting thanks to the new G9 plug-in base/holder system
- Dimmable

em: failure characteristics on arcing at end-of-life



Pulsating arc Lamp shatters at end-of-life



Safe fuse failure at end-of-life

HALOPAR® 16 from OSRAM. Mains voltage halogen reflector lamp

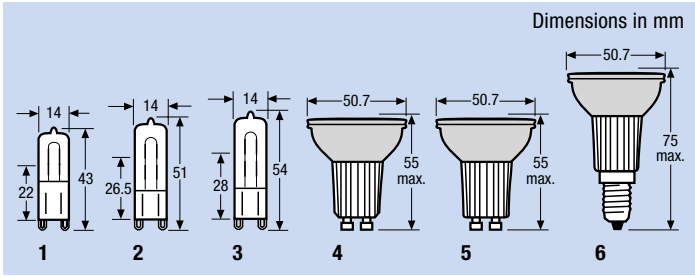
The new HALOPAR® 16 with E14 (SES) screw base can be used in many luminaires not originally designed for halogen lamps, such as elegant spot lights or floor-standing lights. These luminaires designed specifically for mains voltage HALOPAR® 16 lamps take the attractive, fully dimmable reflector lamps in the relevant GU10 or GZ10 base versions.

- Efficient optics in attractive faceted reflectors (looks like an OSRAM DECOSTAR®)
- Simple operation, no transformer required
- With integral safety fuse: meets the safety requirements of IEC 60432-2
- Approved to IEC 60598-1 for use in open luminaires
- Robust filament support thanks to bulb-pinch technology
- UV-FILTER quartz
- Dimmable
- With aluminised reflector (heat is emitted at the front) or Cool-Beam reflector (most of the heat is emitted at the back)

Mains voltage halogen lamps from OSRAM. Original is best

Because of their inferior technology, “copied” HALOPIN® and HALOPAR® 16 lamps not only have a risk of shattering (around 25% will do so!), they generally have lower luminous intensity and lower colour temperatures – and sometimes directly infringe OSRAM patents.

Mains voltage halogen lamps from OSRAM are innovative, safe, of a high quality and comply with all relevant standards.



Technical data

HALOPIN® COMPACT		25 W	40 W
Product no.	clear	791777	791791
(EAN) 4050300	frosted	791920	791753
Luminous flux	clear	260 lm	490 lm
	frosted	230 lm	460 lm
Voltage*		230 V	230 V
Average life		2000 h	2000 h
Base		G9	G9
Standard pack		20 pcs.	20 pcs.
Fig. no.		1	1

HALOPIN®		25 W	40 W	60 W	75 W
Product no.	clear	186498	186511	198286	198323
(EAN) 4050300	frosted	186535	186559	198309	198347
Luminous flux	clear	260 lm	490 lm	820 lm	1100 lm
	frosted	230 lm	460 lm	790 lm	1050 lm
Voltage*		230 V	230 V	230 V	230 V
Average life		1500 h	1500 h	2000 h	2000 h
Base		G9	G9	G9	G9
Standard pack		20 pcs.	20 pcs.	20 pcs.	20 pcs.
Fig. no.		2	2	2	3

HALOPAR® 16	Alu reflector 35 W	Alu reflector 50 W	Cool-Beam reflector 50 W	Alu reflector/ E14 (blister) 40 W
Product no. (EAN) 4050300	727189	501819	501857	659527
Voltage**	230 V	230 V	230 V	230 V
Luminous intensity	500 cd	800 cd	750 cd	550 cd
Beam angle	35°	40°	40°	40°
Colour temperature	2800 K	2800 K	2900 K	2800 K
Average life	2000 h	2000 h	2000 h	2000 h
Base	GU10	GU10	GZ10	E14 (SES)
Standard pack	20 pcs.	20 pcs.	20 pcs.	20 pcs.
Fig. no.	4	4	5	6

* also available in 120 V (except 75 W) and 240 V
** also available in 240 V