

Technical Information

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Status: valid

Xenon Short Arc Lamp

XBO® 1600 W/HS OFR

■ Product description

The OSRAM XBO® 1600 W/HS OFR is a DC -operated lamp that is especially suited for applications requiring excellent arc stability and high luminance. The OSRAM XBO® 1600W/HS OFR is designed for horizontal burning position (H = horizontal) and excels with its compact dimensions (S = short).

■ Technical data

Order reference	XBO® 1600 W/HS OFR
Rated lamp wattage	W 1550
Rated lamp voltage	V 23
Rated lamp current (=)	A 65
Current control range	A 50 - 75
Ignition voltage	kV _p 33
Min. open circuit voltage for cold / hot ignition	V 65 / 75
Luminous flux	lm 70000
Luminous intensity	cd 5500
Average luminance	cd/cm ² 70000
Luminous area w x h *)	mm 1.0 x 3.2
Electrode gap e (cold)	mm 3.8
Lamp length (overall) l ₁	mm max. 235
Lamp length l ₂	mm max. 205
LCL a	mm 95
Bulb diameter d	mm 46
Average service life	h 3000
Warranty	h 2000
Base	• Cathode: SFcX 27-8 • Anode: SFa 27-11

*) w = luminance half width value; h = height of luminous area (corresponds to electrode gap, hot)

■ Lamp operation

Maximum permissible base temperature	°C	230
Cooling		forced cooling / fan necessary
Min. air flow velocity around discharge vessel	m/s	6
Burning position		s 20 (vertical ± 20°; anode up) ; p 20 (horizontal ± 20°)

