

Technical Information

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Xenon Short Arc Lamp

XBO[®] 500 W/H OFR

■ Product description

The OSRAM XBO[®] 500 W/H OFR is a DC -operated lamp that is especially suited for applications requiring excellent arc stability and high luminance. The OSRAM XBO[®] 500 W/H OFR is designed for horizontal burning position (H = horizontal).

■ Technical data

Order reference	XBO [®] 500 W/H OFR	
Rated lamp wattage	W	500
Rated lamp voltage	V	17
Rated lamp current (=)	A	28
Current control range	A	17 - 30
Ignition voltage	kV _p	30
Min. open circuit voltage for cold / hot ignition	V	60 / 80
Luminous flux	lm	14,500
Luminous intensity	cd	1,450
Average luminance	cd/cm ²	40,000
Luminous area w x h *)	mm	0.9 x 2.5
Electrode gap e (cold)	mm	2.8
Lamp length (overall) l1	mm	max. 190
Lamp length l2	mm	max. 165
LCL a	mm	75
Bulb diameter d	mm	35
Average service life	h	2,500
Warranty	h	2,000
Base	Cathode:	SFa 15-10
	Anode:	SFa 16-8

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

■ Lamp operation

Maximum permissible base temperature	230 °C
Cooling requirements	forced cooling / fan
Min. air flow velocity around discharge vessel	5 m/s
Magnetic arc stabilization	required in horizontal operating position
Operating position	s 30 (vertical ± 30°; anode up) ; p 30 (horizontal ± 30°)

