

# Technical Information

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# Xenon Short Arc Lamp

## XBO<sup>®</sup> 6000 W/HTP OFR

### ■ Product description

The OSRAM XBO<sup>®</sup> 6000 W/HTP OFR is a DC-operated lamp that is especially suited for applications requiring excellent arc stability and a high luminance. The OSRAM XBO<sup>®</sup> 6000 W/HTP OFR is designed for horizontal burning position (H = horizontal, TP = threaded pin)

### ■ Technical data

Order reference	XBO <sup>®</sup> 6000 W/HTP OFR	
Rated lamp wattage	W	6000
Rated lamp voltage	V	37
Rated lamp current (=)	A	160
Current control range	A	110 - 165
Ignition voltage	kV <sub>s</sub>	40
Min. open circuit voltage for cold / hot ignition	V	85 / 110
Luminous flux	lm	280000
Luminous intensity	cd	40000
Average luminance	cd/cm <sup>2</sup>	105000
Luminous area w x h <sup>*)</sup>	mm	2.0 x 7.0
Electrode gap e (cold)	mm	8.5
Lamp length (overall) L <sub>1</sub>	mm	max. 430
Lamp length L <sub>2</sub>	mm	max. 382
LCL a	mm	165
Bulb diameter d	mm	78
Average service life	h	900
Warranty	h	750
Base	Cathode: SFc 27-14 Anode: SFa 27-14	

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

### ■ Lamp operation

Maximum permissible base temperature	°C	230
Cooling	forced cooling / fan	
Min. air flow velocity around discharge vessel	m/s	6
Magnetic arc stabilization	necessary for horizontal operation	
Burning position	s 15 (vertical ± 15° ; anode up) ; p 15 (horizontal ± 15°)	

