

Technical Information

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Substitutes: Edition 01/04

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Xenon Short Arc Lamp

XBO[®] 4000 W

■ Product description

The OSRAM XBO[®] 4000 W is a DC -operated lamp that is especially suited for applications requiring excellent arc stability and high luminance. The OSRAM XBO[®] 4000 W is designed for solar simulation.

■ Technical data

Order reference	XBO [®] 4000 W	
Rated lamp wattage	W	4000
Rated lamp voltage	V	32
Rated lamp current (=)	A	120
Current control range	A	80 - 140
Ignition voltage	kV _P	36
Min. open circuit voltage for cold / hot ignition	V	85 / 110
Luminous flux	lm	180000
Luminous intensity	cd	19000
Average luminance	cd/cm ²	70000
Luminous area w x h *)	mm	2.0 x 7.5
Electrode gap e (cold)	mm	8.5
Lamp length (overall) L ₁	mm	max. 432
Lamp length L ₂	mm	max. 384
LCL a	mm	176
Bulb diameter d	mm	60
Average service life	h	1500
Warranty	h	1000
Base	Cathode	SFa 30-20
	Anode	SFa 30-18

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

■ Lamp operation

Maximum permissible base temperature	230 °C
Cooling	Forced cooling / fan
Min. air flow velocity around discharge vessel	6 m/s
Operating position	s 15 (vertical ± 15° ; anode up)

