Technical Information No. FO 5663 Edition: 03/17 - subject to change Substitutes: Edition 07/15 Status: valid

HBO[®] 3500 W/PIL

Product description

The OSRAM HBO[®] 3500 W/PIL is a direct current i-line lamp for microlithography processes within the wafer fabrication for Integrated Circuits. This lamp type emits a very high radiant intensity in the ultraviolet and visible wavelength range and is developed and optimised for being used in ASML equipment (PAS 5500 /150, /175, /200B, /250C, /400B, /400C, /400D, /400E).

Technical data

Order reference		HBO [®] 3500 W/PIL	
Lamp wattage range	W	2,400 – 3,400	
Rated lamp wattage	W	3,150	
Rated lamp voltage	V	21 – 25	
Rated lamp current (=)	А	126 - 150	
Ignition voltage (cold)	kVs	max. 20	
Electrode gap e	mm	4.5	
Lamp length I1	mm	max. 360	
Lamp length I2	mm	320 / max.325	
Bulb diameter d	mm	82	
LCL a	mm	154	_
Guaranteed life	h	See warranty declaration	
Base		 Cathode: SFc 32.5-6.7/50 Anode: SFaX 40-6/50 with c 	able connection (M1



Lamp operation

Maximum permissible base temperature	°C	200
Cooling		Forced base cooling
Burning position		Vertical, anode up

Safety Instruction

Due to their high luminous efficacy, the UV radiation which they emit and the high pressure within the lamp, HBO[®] lamps may only be operated within enclosed, purpose-built housings. When a lamp breaks, mercury is released. Particular safety regulations should be paid attention (for details please request technical information sheet no. FO 4574).

