



ATL Lasertechnik Advanced Technology Lasers



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ATLEX 300 FBG

Ultra-compact, high efficient excimer laser for Fiber Bragg Grating (FBG) writing



ATLEX-300-FBG main features:

- Soft corona preionization
- HV-solid state pulser
- Laser head volume < 3l
- TMC (Total-Metal-Ceramic) Vessel
- Integrated vacuum pump & halogen filter
- Air Cooled / Optional Liquid Cooled, active thermal management
- RS-485, RS232, USB and fiber optic Interface for system integration
- Flushable optics holder
- Energy stabilization mode
- Dynamic fan speed controls
- Meets European CE-standard
- RoHS compliance

Details

Applications

Fibre Bragg grating writing

Date

- 30th April 2015

ATLEX-300-FBG Specifications			
Gas Medium	ArF	KrF	Units
Wavelength	193	248	nm
High Voltage Switching Technique	Solid State Switch		
Max. Pulse Energy ¹	10	15	mJ
Max. Average Power	2,4	4,0	W
Spatial Coherence (Vertical Beam Direction)	>300	>300	µm
Max. Rep Rate	300		Hz
Pulse Duration ²	5 – 8		ns
Beam Dimensions ² (V x H)	4 x 6		mm
Beam Divergence ² (V x H)	1 x 2		mrad
Energy Stability (standard deviation)	< 3		%
Dimensions (LxWxH) click here for details	540 x 470 x 370		mm
Weight	60		kg
Cooling	Cooling Air / Optional Liquid		
Power requirement	230 VAC / 6,3 A / 1 phase / 50-60 Hz		