


Teknisk data

	XS5	XS10	XS20	XS30	XS40
Wavelength	Solid state laser Nd:YVO4 (1064 nm), diode pumped, active Q-switched				
Laser class					
Beam quality	< 1,5	< 2	< 2,2	< 2,5	< 2,5
Beam diameter	5 mm	6 mm	6 mm	8 mm	9 mm
Pulse width	4 - 40 ns	5 - 20 ns	5 - 20 ns	7 - 40 ns	7 - 40 ns
Pulse width @ 10 kHz	4 ns	5 ns	5 ns	7 ns	8 ns
Pulse energy @ 10 kHz	0,3 mJ	0,5 mJ	0,8 mJ	1,3 mJ	2,0 mJ
Pulse peak power @ 20 kHz	20 kW	60 kW	90 kW	110 kW	120 kW
Long-term power instability	< 5%	< 5%	< 5%	< 5%	< 5%
Cooling system	integrated thermoelectric air cooling				
Target diode	integrated red laser diode $\lambda = 635 \text{ nm}$ 3 mW (class 2M)				
Safety parameters					
PL / Category	PLe / Kat. 4				
DC	99% (high)				
CCF	>65 points				
B _{10d} Value (for one channel)	12.000.000	7.500.000	2.500.000	20.000.000	20.000.000
General information					
Weight resonator	4,5 kg	4,5 kg	4,5 kg	6,5 kg	6,5 kg
Dimensions resonator	244 x 98 x 145 mm	244 x 98 x 145 mm	244 x 98 x 145 mm	244 x 98 x 145 mm	244 x 98 x 145 mm
Weight rack	15 kg	15 kg	15 kg	18 kg	18 kg
Electr. connection values	90 to 264 VAC, 50/60 Hz, < 600 W @ XS 50				
Operating temperature	-10 to -35 °C (46 to 95 °F)				
Air humidity	< 90% non-condensing				

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