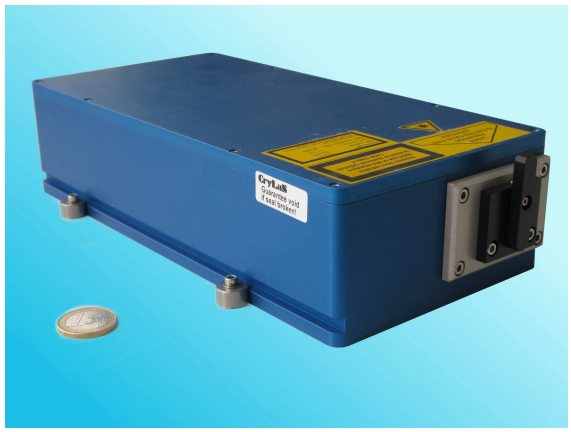
MOPA 355-200

Diode pumped passively Q-switched solid state laser

- 355 nm
- Single Pulse
- ≤ 1.1 ns
- 1 – 1000 Hz
- > 200 µJ
- External Trigger Mode



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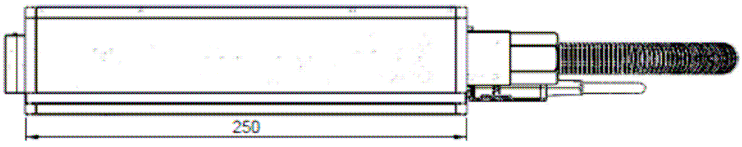
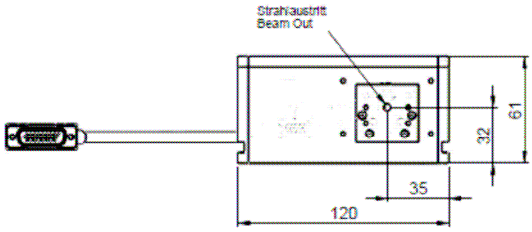
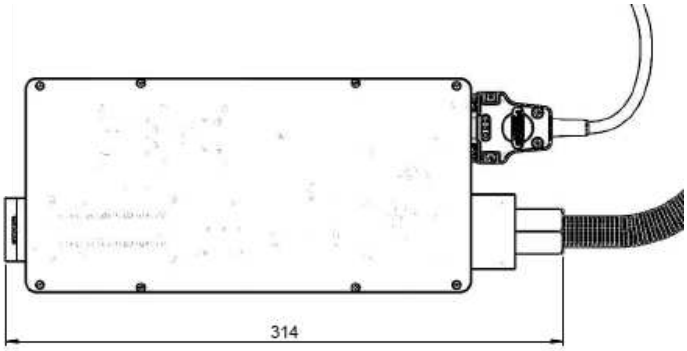
Optical Data	Wavelength	355 nm
	Peak Power	> 180 kW @ 1000 Hz
	Pulse Energy	> 200 µJ @ 1000 Hz
	Beam Divergence (full angle)	< 3.0 mrad
	Beam Ellipticity	< 1.5 :1
	Beam Diameter	0.7 ± 0.3 mm (at laser exit)
	Spatial Mode	TEM_{00}
	Pulse Repetition Rate (with external trigger)	1 - 1000 Hz
	Pulse Width (FWHM)	≤ 1.1 ns
	Polarization Ratio	> 100:1, vertical
	Pulse Energy Stability (averaged over 8 hrs)	< ± 3 %
	Pulse-to-Pulse Energy Stability (over 60 sec)	< ± 3% (< 1% rms)
	Laser Classification	4 / IV
Optical Output	Free Beam	
Electrical Data	Electrical Power Consumption	< 200 W
	Line Voltage	90 - 265 V AC (50-60 Hz)
Interface	USB	
	BNC connector for external triggering (TTL)	
	SMB connector for 12 V DC output	
Miscellaneous	Warm-up Time	< 10 min
	Operating Temperature	18 - 38 °C
	Laser Head Size	61 x 120 x 314 mm (H x W x L)
	Controller (Stand-Alone Unit Size)	184 x 343 x 375 mm (H x W x L)
Options	Multimode fiber coupling	
	Synchronization signal output (rise time < 1.5 ns)	
	Electrical or manual wavelength switch (355nm – 532nm) or electrical beam blocker	
	External telescope (beam expander) / Electrical or manual attenuator	

CRYLAS GmbH · Ostendstr. 25 · D-12459 Berlin · Fon +49(0)30-53 04 24 00 · Fax +49(0)30-53 04 24 44 · info@crylas.de · www.crylas.de

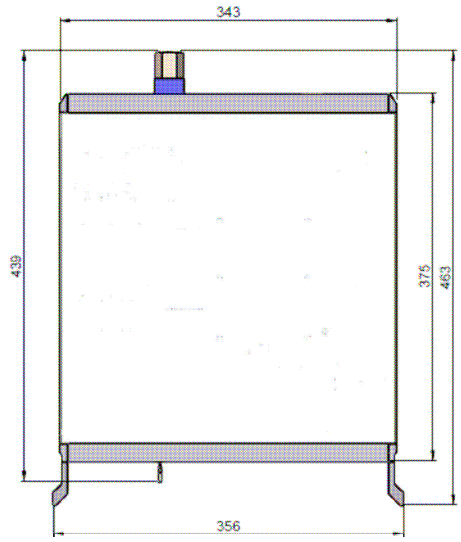
Laser Head and Controller







Laser Head
(width = 120; height = 61; length = 314
core dimensions in mm)



Controller
(width = 343; height = 184; length = 375
core dimensions in mm)

Laser Safety Labels

The MOPA 355-200 lasers are class 4 according to IEC 60825-1

INVISIBLE
LASER RADIATION
AVOID EYE OR SKIN EXPOSURE TO
DIRECT OR SCATTERED RADIATION
BEAM CLASS 4 LASER PRODUCT

wavelenght:	**355 nm**
max. Output:	**400 µJ**
pulse duration:	**1 ns**
max. repetition rate	**1000 Hz**

Complies with IEC 60825.1 (October 2003)
Complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No.50. dated July 26. 2001

Aug, 2012