

eMOPA 355-100

Diode pumped passively Q-switched solid state laser

- 355 nm
- Single Pulse
- 0.9 - 1.3 ns
- single shot (pulse on demand) – 1 kHz
- > 100 μ J
- External / Internal Trigger



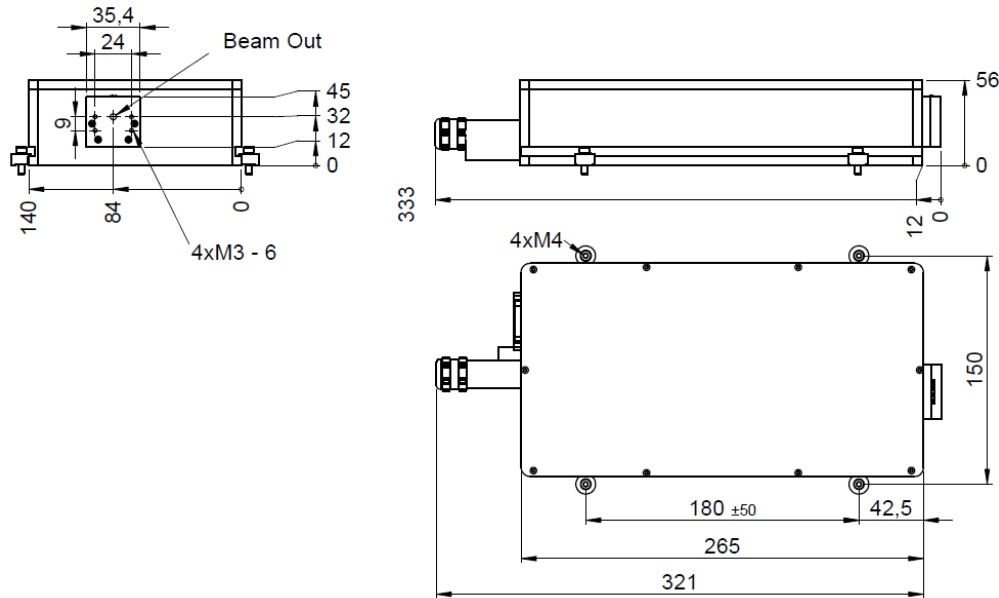
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Optical Data	Wavelength	355 nm
	Peak Power	> 80 kW @ 1000 Hz
	Pulse Energy	> 100 μJ @ 1000 Hz
	Beam Divergence (full angle)	< 3.5 mrad
	Beam Ellipticity	< 2:1
	Beam Diameter	450 ± 150 μm (at laser exit)
	Spatial Mode	TEM ₀₀
	Pulse Repetition Rate (with external trigger)	single shot (pulse on demand) – 1 kHz
	Pulse Width (FWHM)	≤ 0.9 – 1.3 ns
	Polarization Ratio	> 100:1, vertical
	Pulse Energy Drift over 6h ¹⁾	< ± 3 %
	Pulse-to-Pulse Energy Stability ²⁾	< 2%
	Laser Classification	4 / IV
Optical Output	Free Beam	
Electrical Data	Electrical Power Consumption	< 100 W
	Line Voltage	90 - 265 V AC (50-60 Hz)
Interface	USB / RS232	
	BNC connector for external triggering (TTL)	
	SMB connector for 24 V DC output	
Miscellaneous	Warm-up Time	< 10 min
	Operating Temperature	22 - 32 °C
	Laser Head Size	56 x 140 x 265 mm (H x W x L)
	Controller (Stand-Alone Unit Size)	129,5 x 177 x 180 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	
¹⁾ Averaged over 10s after 10min of continuous operation @ 1kHz activated closed loop control		
²⁾ Over 1000 pulses @ 1kHz after 10min of continuous operation		

Dimensions

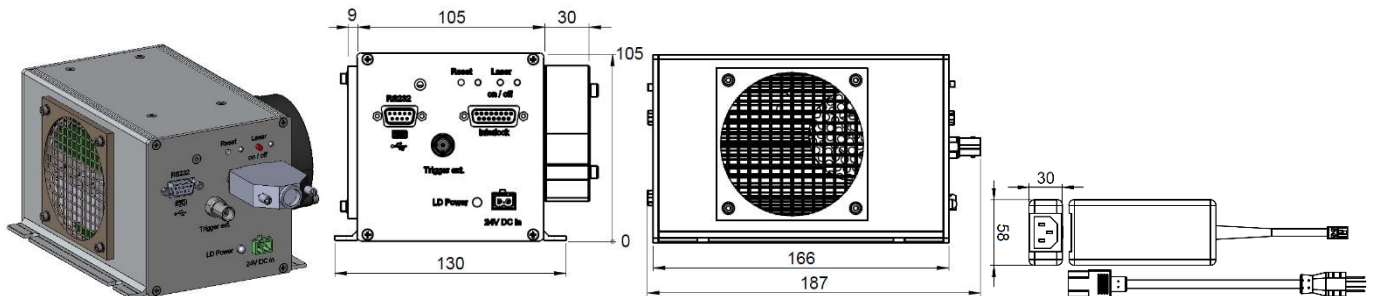
Laser Head:

265 x 140 x 56 mm



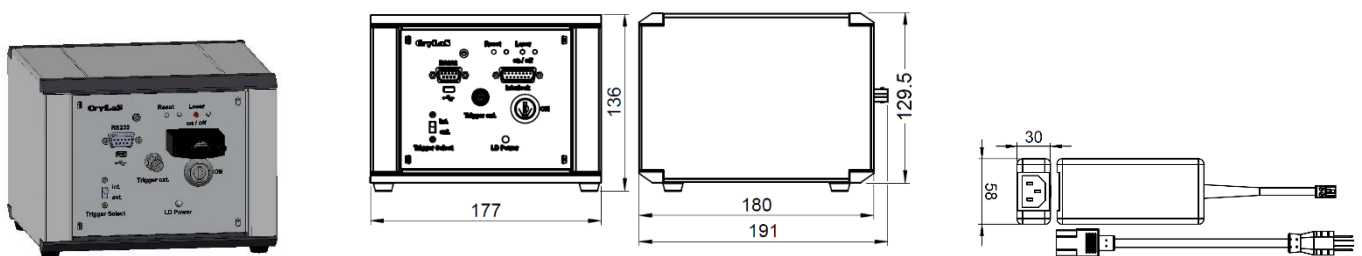
Controller OEM:

166 x 144 x 105 mm



Controller Stand-Alone:

180 x 177 x 129.5 mm



Laser Safety Labels

The eMOPA 355-100 lasers are class 4 according to IEC 60825-1

