HPL-XXX-T series

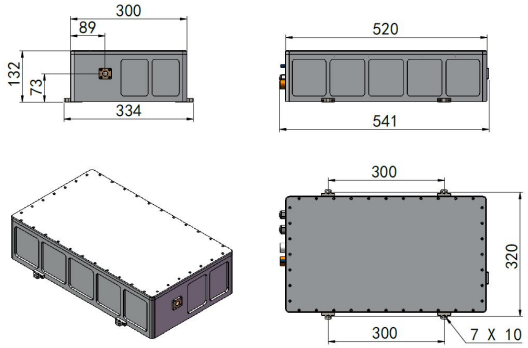
WATER COOLING LD PUMPED ALL-SOLID-STATE Q-SWITCHED LASER

All solid state Q-switched laser has the features of high peak power, high repetition rate, and short pulse duration, which is widely used in marking, carving, measure, scientific research, and so on.

SPECIFICATIONS

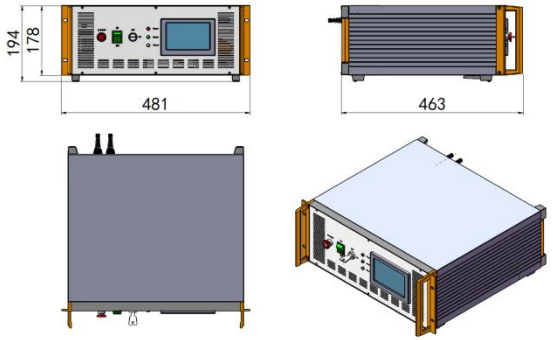
Wavelength (nm)	240±1	244±1	248±1	360±1	375±1	405±1	720±1	785±1	808±1
Operating mode	Actively								
Average power (mW)	40 @10kHz			500 @10kHz	2000 @10kHz		4000 @10kHz	7000 @10kHz	
Single pulse energy (μJ)	4 @10kHz			50 @10kHz	200 @10kHz		400 @10kHz	700 @10kHz	
Rep. rate (kHz)[1]	1-10								
Pulse duration (ns)	<25ns		<15ns	<25ns	<15ns		<25ns	<15ns	
Peak power (kW)	0.16 @10kHz		0.26 @10kHz	2 @10kHz	13.3 @10kHz		16 @10kHz	46.7 @10kHz	
Ave power stability (rms, 4 hours±3°C)	<5%, <3%								
Beam divergence, full angle (mrad)	<2								
Beam diameter at the aperture (1/e²,mm)	<3								
M²	<1.5								
Beam height from base plate (mm)	73								
Cooled method	Water cooled								
Operating temperature (°C)	15-35								
Power supply (220/110VAC)	PSU-AOM(4U)								
Expected lifetime (hours)	>10000								

LASER HEAD



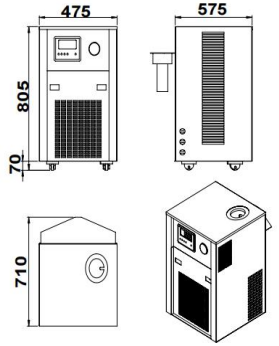
541(L) ×334 ×132(H) mm³, 30kg

POWER SUPPLY[2]



463 (L) ×481(W) ×194(H) mm³, 10kg

WATER CHILL



475 (L) ×575(W) ×805(H) mm³, 60kg

1 One fixed value between 1-10kHz.

2 Fixed output power.