

DPS-527-PIV/1-20mJ

**HIGH ENERGY DIODE PUMPED
ALL-SOLID-STATE
Q-SWITCHED LASER**

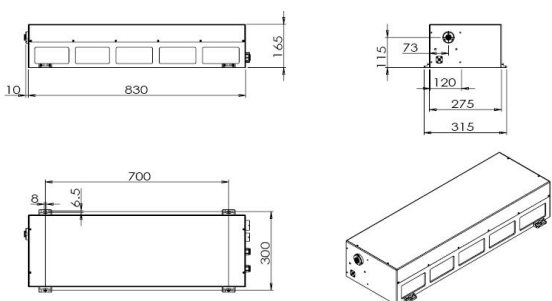
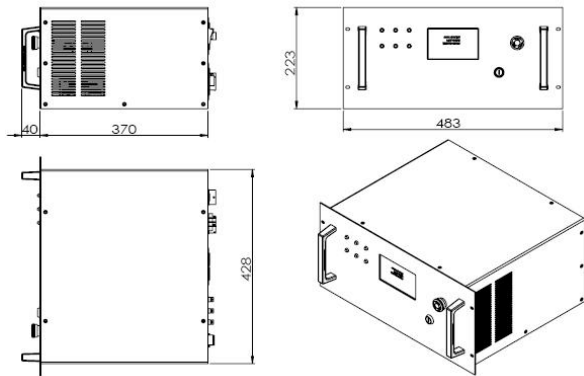
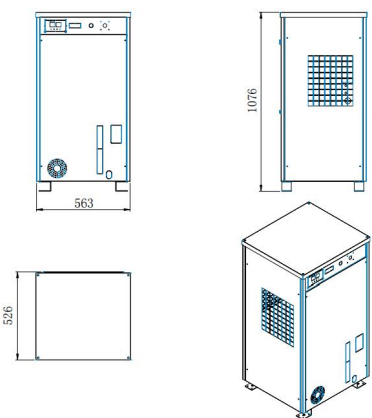
High energy diode pumped all solid state Q-switched laser at 527nm has the features of high single pulse energy, high output power, and high peak power, which is widely used in pumping Ti:Sapphire laser, semiconductor water surface processing, PIV, flow field lighting imaging, scientific research, and so on.



SPECIFICATIONS

Wavelength (nm)	527±1
Operating mode	Actively
Single pulse energy (mJ)	1-20@1kHz@Single pulse
Average power (W)	1-20@1kHz@Single pulse
Pulse duration (ns)	~200@1kHz
Rep. rate ¹	0.2-10kHz
Mode	Multi-Mode
Power stability (rms)	<2%, <1%, <0.5%
Beam divergence, full angle (mrad)	~5
Beam diameter (mm)	~5
Pointing stability over temperature(μrad/°C)	<50
Delay between two pulses (us)	0-500 (can be customized)
Warm-up time (minutes)	<15
Beam height from base plate (mm)	115
Cooled method	Water cooled
Operating temperature (°C)	15-35
Power supply (110/220VAC)	PSU-DPS-PIV
Expected lifetime (hours)	>10000
Available options	Articulated arm; Laser light sheet



LASER HEAD	POWER SUPPLY	WATER CHILLER (WCH-5000)
 840(L) × 315(W) × 165(H) mm³, 27kg	 410(L) × 483(W) × 223(H) mm³, 15kg	 563(L) × 526(W) × 1076(H) mm³, 80kg

¹ Both internal trigger and external trigger are acceptable. One fixed value between 0.2~10kHz.

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