



## DC Green Series

Nd: YLF Laser

DC50-527 | DC100-527 | DC150-527


### Features

- 527 nm wavelength
- Compact, rugged, air-cooled design, water cooled option
- Patented intracavity green generation
- TEM00 beam with typical  $M^2 < 1.2$
- Pulse rep rates from single shot to 10kHz
- RS232 computer control
- External TTL Triggering
- All-in-one (AIO) single box design
- Option of 15 V Power Supply


## Specifications

### OUTPUT CHARACTERISTICS

Model	DC50-527	DC100-527	DC150-527
Wavelength	527 nm		
Average Power @ 3 kHz	1 W	2 W	3 W
Pulse Energy @ 1 kHz	0.5 mJ	1 mJ	1.5 mJ
Pulse Width @1 kHz (nominal)	30 ns		25 ns
Repetition Rate	1 Hz to 10 kHz		
Pulse to Pulse Instability	<3% rms		
Polarization Ratio	Vertical; 100:1		
4σ Beam Diameter @ exit	0.35 mm	0.5 mm	0.7 mm
Beam Divergence (Full Angle Far Field)	< 4 mrad	< 2mrad	
Beam Circularity	> 85%		
Spatial Mode	TEM00 M²<1.2		TEM00 M²<1.3



Photonic Industries  
International, Inc.



DC50-527   DC100-527   DC150-527

Beam Pointing Stability	< 50 μrad		
Long Term Instability (8 hr ± 1° C)	±3%		
Line Frequency	50 to 60 Hz		

ENVIRONMENTAL AND UTILITY REQUIREMENTS ▲

Model	DC50-527	DC100-527	DC150-527
Technology	Air-Cooled		
Power Consumption	~50 W		~130 W
Warm Up Time	< 5 min from standby or cold start		
Electrical Requirement	100 to 240V AC		
Relative Humidity	Non-condensing, 90% Max		
Ambient Temperature	15°C to 35°C (59° to 95°F) Operating Range		
Interface	Ethernet / RS 232 / GUI / External TTL Triggering		

DIMENSIONS ▲

Model	DC50-527	DC100-527	DC150-527
Laser Head (W x H x L)	4 in x 5.5 in x 8.5 in		5 in x 4.88 in x 11 in
Controller (W x H x L)	None		#colspan#
Laser Head Weight	~6 lbs		~15.5 lbs
Controller Weight	None		
Umbilical Length	None		

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Options

Please contact us for more options