

VLPN Series

Visible QCW Single-mode Fiber Lasers

PRELIMINARY







IPG Photonics introduces the VLPN series of QCW fiber lasers with up to 40 W average power, single-mode beam quality and operating at wavelengths of 589, 615 and 635 nm. Based on IPG's highly efficient and reliable laser technologies, the VLPN lasers feature a super-compact and lightweight optical head connected with a fiber cable to an air-cooled rack-mountable main laser console. VLPN's all fiber laser technology directly enables adjusting the average power over the full range while maintaining perfect single-mode beam quality and high power stability. Due to its compact dimensions, industrial grade design and low power consumption, IPG's VLPN lasers are ready for integration into customer's systems in the field ranging from laser shows and cinema projectors to medical and scientific applications.



VLPN Series

Visible QCW Single-mode Fiber Lasers

Optical Characteristics			
Wavelength, nm	589	615	635
Linewidth, nm	3	5	7
Mode of Operation		Pulsed/ Quasi-CW	
Average Power ¹ , W		40	
Repetition Rate, MHz		3	

5.0-100 Power Tunability, % Power Stability², % ± 0.5

Polarization Linear, >100:1

Beam Quality³, M² <1.2

General	Characteristics
Concrai	Characteristics

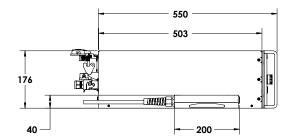
General Characteristics	
Main Console Dimensions ⁴ , mm	448 x 503 x 176
Optical Head Dimensions, mm	100 x 200 x 40
Cooling	Air-cooled
Supply Voltage, VAC	50-60 Hz, 100-240
Power Consumption, W	800

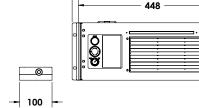
^{*} Preliminary Specifications

Pulse Duration, ns

15

⁴ OEM Modules with fiber-coupled output available upon request





480

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¹ Custom power levels up to 100 W available upon request

² Over 8 hours, T= const.

³ Multi-mode fiber-coupled output available upon request