813nm High-power low-noise laser

NARROW-LINEWIDTH CW LASERS

813nm High-power low-noise laser Based on high-power, low-noise fiber lasers amplification and sum-frequency technology, Precilasers can provide high-power, narrow linewidth laser output with a wavelength ranging from 810 to 880 nm.

- Quantum Computing
- Rb Quantum Computing Quantum
- Precision Measurement
- Sr Atomic Clock Quantum
- Precision Measurement
- Cs Fountain Clock Quantum
- Precision Measurement
- Rydberg Field Measurement

Specifications

Parameter	FL-SF-XXXX-YY-CW (1)
Wavelength Range	811-820nm / 821-840nm / 841-880nm
Typical Wavelength	813nm, 840nm, 852nm, 866nm
Output Power	2W/4W/6W/8W/10W/15W/25W / 2W/4W/6W/8W/10W/15W/30W / 2W/4W/6W/8W/10W/15W/30W
RIN	<0.05% (10Hz-100MHz, RMS)
Thermal Tuning Range	>0.15nm, Never Mode-hop
Output Mode	Free Space Output, Beam Diameter 0.7-1.0mm
Linewidth (2) (100us)	<20kHz
PER	>20dB
Power Stability	<0.75%@3hours, RMS
Beam Quality	M 2 <1.1
Fast Frequency Tuning Range	>500MHz
Fast Frequency Tuning Bandwidth	>1MHz
PZT Frequency Tuning Range	>3GHz
PZT Frequency Tuning Bandwidth	>5kHz
Cooling	Air Cooling(Output Power≤2W) Or Water Cooling
PM Fiber Output	For output power≤2W lasers, single-mode polarization-maintaining fiber output can be selected.
Temperature	15-30°C
Power Consumption	<400W
Power Supply	100V-240V, AC, 50/60Hz

Source: WaveQuanta product database. For ordering, customization (wavelength, power, package) and quotation, contact sales@wavequanta.com.