

Green Illuminator Laser Sparkle Optics Corporation

- 515 nm Laser Wavelength
- High Pulse Energy and Peak Power
- TEM₀₀ and Polarized
- Scalable to 200 W average power

Specifications			
	Unit	515-QN-40	515-QN-80
Wavelength	nm	515	515
Average Power (max)	W	40	80
Pulse Energy (max)	mJ	7	2
Peak Power (max)	kW	>350	>50
Beam quality		TEM ₀₀ , M ² < 1.6	TEM ₀₀ , M ² < 1.6
Pulse repetition rate	kHz	5-100 kHz	5-100 kHz
Pulsewidth	ns	< 30 ns at <10 kHz	< 30 ns at <10 kHz
Polarization		Vertically polarized, >150:1	Vertically polarized, >150:1
Beam diameter (2w)	mm	1 (typical)	1 (typical)
Laser Head	inch	23 w x 24 d x 8 h	23 w x 24 d x 8 h
Laser Power Supply	inch	17 w x 32 d x 16 h (enclosure)	17 w x 32 d x 16 h (enclosure)
Electrical Input		220 VAC, single-phase, 50-60 Hz	220 VAC, single-phase, 50-60 Hz
Water	liter / min	4	4
Helium gas (balloon grade)	liter / min	0.3	0.3
Laser can be custom built to customer requirements			

Applications:

- Illuminator for wavefront error correction in astronomy
- Laser Illumination
- Lidar
- Deep Space Communication