

## Green Laser

### High Power Single Mode Green Laser for Material Processing



#### 150W Single Mode 532 nm Laser with 500KHz Modulation

By using Coherent Beam Combining (CBC) technology, we are able to offer high-power, high brightness green laser with fast modulation and power scalability. Output up to 150W. Higher Power available per special order.

Civan Green Laser is based on Civan high efficient and reliable fiber laser.

The laser features an optical head, connected with a duct to an optical cabinet.

#### Capabilities

- High power in 532 nm
- Fast modulation
- Fast Power scalability
- Remote operation
- Excellent beam quality and brightness

#### Applications

- Remote material processing
- Processing of aluminum, stainless steel, copper and brass
- Additive Manufacturing
- Solar cell manufacturing

## Green Laser

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#### Laser Characteristics

Nominal Output Power (W)	150
Setpoint Laser Power (%)	10-100
Power Stability (%)	±1.5%
Power Modulation Rate (kHz)	50
Rise / Fall Time After Stabilization (ns)	200
M <sup>2</sup>	<1.1
Operating Mode	CW, QCW
Laser Wavelength (nm)	532 ± 5
Polarization	Linear
Spot Diameter (mm)	Custom 2.5-5

#### Electrical Characteristics

Voltage, 1-phase, VAC	220V, 50/60 Hz
Max Consumption (kW)	2

#### Inlet

Cooling Water Pressure (bar)	3
Water Flow Rate (LPM)	20
Temperature (C°)	20 ± 2
Air Pressure (bar)	6
Air Flow (LPM)	40
Air Purity (particles, µm)	0.01

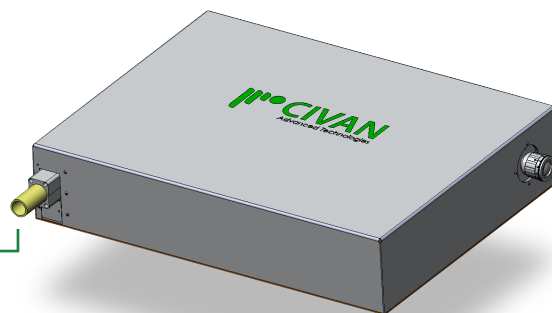
#### Dimensions

Optical Cabinet Dimensions (W*D*H) mm	500, 700, 800
Optical Head Dimensions (W*D*H) mm	530, 700, 150

## Optical Head

#### Input Cable:

- Fibers 20/400
- Cooling liquid
- Dry air
- Electrical cables



Optical power output  
(150W, 532nm)

## Optical Cabinet

