LASER COMPONENTS, INC.

# High Power 532 nm Q-Switched Green

QCW Lasers

**20-200W Output**

**Low Divergence,High Stability**

**Diode pumped,Q-Switched, Water-Cooled**

| System Specifications | | QGL532 -20 | QGL532 -50 | QGL532 -100 | QGL532 -200 |
|---|---|---|---|---|---|
| Wavelength | | 532nm | 532nm | 532nm | 532nm |
| Output Power | | 20 W | 50 W | 100 W | 200 W |
| Pulse Width | | 60-150ns | 60-150ns | 60-150ns | 60-150ns |
| Repetition Rate | | 3-20KHz | 3-20KHz | 3-20KHz | 3-20KHz |
| Spatial mode | | Near $TEM_{00}$ | Near $TEM_{00}$ | Near $TEM_{00}$ | Near $TEM_{00}$ |
| Beam Diameter[1] | | 2.0 mm | 3.0 mm | 4.0 mm | 5.0 mm |
| Beam divergence[2] | | ＜2.0 mrad | ＜3.0 mrad | ＜4.0 mrad | ＜5.0 mrad |
| $M^2$ factor | | $M^2 \leqslant 3.0$ | $M^2 \leqslant 5.0$ | $M^2 \leqslant 7.0$ | $M^2 \leqslant 12.0$ |
| Power stability[3] | | 3% @ 4 hours | 3% @ 4 hours | 5% @ 4 hours | 5% @ 4 hours |
| Point stability[4] | | ＜0.05mrad | ＜0.05mrad | ＜0.05mrad | ＜0.05mrad |
| Polarization ratio | | ＞100:1 | ＞100:1 | ＞100:1 | ＞100:1 |
| Warm-up time | | 5minutes | 5minutes | 5minutes | 5minutes |
| Expected lifetime | | 10000 hours | 10000 hours | 10000 hours | 10000 hours |
| Warranty time | | 1 year | 1 year | 1 year | 1 year |
| Operating temperature | | 10-35℃ | 10-35℃ | 10-35℃ | 10-35℃ |
| Power supply | | 80-260VAC | 80-260VAC | 80-260VAC | 80-260VAC |
| Power Consumption | | 600W | 1000W | 1500W | 3000W |
| Dimensions (L×W×H) | Laser Head<br>Power Supply | 600×200×120mm<br>420×500×240mm | | 800×200×120mm<br>420×500×500mm | |
| Weights | Laser Head<br>Power Supply | 10Kg<br>30Kg | | 15Kg<br>50Kg | |

**NOTES**

All performance specifications guaranteed at specified output power only.

1 $1/e^2$ at exit port.

2 Full-angle divergence.

3 Measured over 4 hours after 15 minute warm-up.

4 Measured as far-field x and y positions over a 25°C to 35°C temperature change.

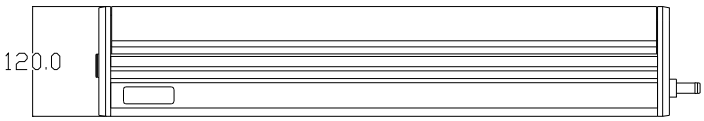
# 532nm

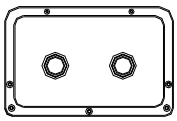
## QCW Green Lasers

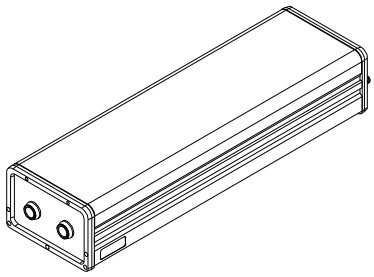
The 532 nm Green MAG Q-Switched Laser is a Diode-Pumped Solis-State Laser with compacted, rugged and air-cooled geometry.

The laser has such features as ultra compact, long lifetime, low cost and easy to operate, which is used in Laser Display, Laser Show, Laser medical treatment, Scientific experimentation, Ti:Sapphire Laser Pumping, Wafer Trimming, Materials Processing, Marking, Diamond Cutting and Drilling, etc.

### Laser Head



All Dimensions are in mm

Laser Lab Components, Inc. (LLCI) follows a policy of continuous product improvement. Specifications are subject to change without notice.

LLCI offers a limited warranty for all MAG™ systems. For full details on warranty coverage, please refer to the Service and Support section at www.LaserLAbComponents.com, or contact your local Sales or Service Representative.