# LDY 10/90(T) Series

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### High Power DPSS Q-switched CW Lasers for Industrial Applications

LDY-CW-

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# High Power DPSS Q-switched CW Lasers for Industrial Applications The LDY10/90(T) Series Diode Pumped CW Nd:YAG Lasers

### **FEATURES**

- High Power
- Rugged Industrial Design
- True TEM<sub>00</sub> Option
- RS232 Control
- Invar Stabilised

#### **APPLICATIONS**

- Metal Marking
- Plastics Marking
- Cutting
- Precision Scribing

The LDY series is a family of DPSS, high power Q-switched CW lasers for industrial applications. These systems are 0-switchable at repetition frequencies of up to 100kHz and can be configured to give a true  $TEM_{00}$  output with a resulting  $M^2$  of <1.2. Built to deliver true 24/7 operation in industrial environments the LDY series is suited to applications such as marking and cutting.

The laser head is based around our rugged selfsupporting invar space frame that gives industry leading mechanical and optical stability.

The LDY series is controlled via an LCD interface and also via a supplied software suite giving total control of the laser and Q-switch. With full computer control the system can easily be integrated into handling equipment with the full software suite that is supplied.

The power supply and integrated chiller are enclosed in a compact rackmounted unit.

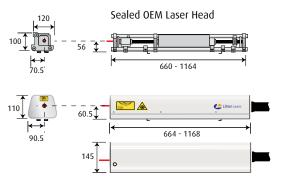




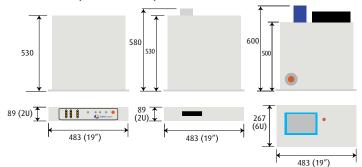
### The LDY10/90(T) Series Diode Pumped CW Nd:YAG Lasers

### **Technical Data**

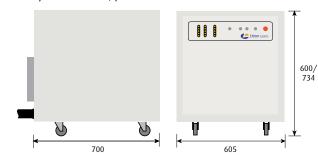
Model	LDY10(T)	LDY20(T)	LDY40(T)	LDY60(T)	LDY90(T)
Repetition Rate (kHz) Wavelength (nm)	0-100 1064	0-100 1064	0-100 1064	0 <i>-</i> 100 1064	0-100 1064
<b>Output Power @ 10KHz (W)</b> MM TEM <sub>00</sub> (T)	10 3	20 6	40 12	60 16	90 20
Beam Diameter (mm) Divergence (mrad) Pulse length (ns)	3 5 100	3 5 100	4 6 120	4 6 120	5 8 120
<b>M²</b> TEM <sub>oo</sub> Control Warm-up time (mins)	<1.2 RS232 5	<1.2 RS232 5	<1.2 RS232 5	<1.2 RS232 5	<1.2 RS232 5
Services Voltage <sup>(1)</sup> (VAC) Frequency <sup>(2)</sup> (Hz) Ambient <sup>(3)</sup> (°C) Power Phase Power Supply	220-250 50 or 60 5-40 Single 10U Rack	220-250 50 or 60 5-40 Single 10U Rack	220-250 50 or 60 5-40 Single 13U Rack	220-250 50 or 60 5-40 Single 13U Rack	220-250 50 or 60 5-40 Single 13U Rack



OEM system controller power unit and chiller



System controller, power unit and chiller in cabinet





(1) 110VAC option requires autotransformer to be specified on order
(2) 50 or 60Hz to be specified on order.
(3) 0-80% non condensing atmosphere

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Our policy is to improve the design and specification of our products. The details given in this document are not to be regarded as binding.

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All dimensions

shown in mm unless otherwise

stated.