# **G** Grace Laser

# **TINY** series

## Diode-pumped Nd: YAG ns-laser



TINY series provide most compact and portable diode pumped air cooled nanosecond lasers with high performance and at a very reasonable price. Diode pumping reduces size, improves lifetime, and eliminates maintenance requirements.

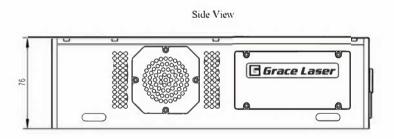
## **FEATURES**

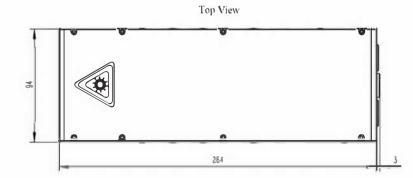
- Air cooled compact design-no water required
- **30-80mJ** at 1064nm / Harmonics from 532nm to 266nm
- 10-50 Hz repetition rate / 8-10 ns pulse duration
- Compact and rugged resonator structure ensures long-term thermal and mechanical stability
- Long lifetime over 1 billion shots
- RS232 interface for remote operation

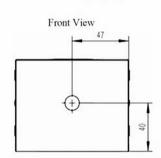
### **APPLICATIONS**

- LIDAR
- LIBS
- Remote sensing
- Ablation
- Mass spectroscopy

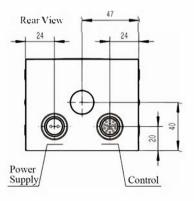
TINY-80 Laser Head Mechanical Specifications







Unit:mm



# **TINY** series Specifications

## Diode-pumped Nd:YAG ns-laser

#### Beam characteristics

NY-80
-20Hz
80
50
20
10
~6

AC Input	$220 \text{ VAC} \pm 5\% 50-60 \text{Hz}$
Power Consumption	<200W (typical 80mJ at 10Hz)
Operating Conditions	Temperature 10-30°C
	Humidity < 60%

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#### NOTES

- 1.All specifications at 1064nm and 10Hz repetition rate unless otherwise noted.
- 2. Average in 8 hours with room temperature variation  $\delta \Gamma < 3^{\circ}$ C.
- 3. Full width at half maximum.
- 4. Full angle for 86.5% of energy.
- 5.Represents RMS value deviation from beam mean centroid.
- 6. With respect to external trigger.
- 7.GRM resonator mode or stable multimode option. Stable version may operate over a wider range of repetition rate and higher output energy compared with GRM mode.

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