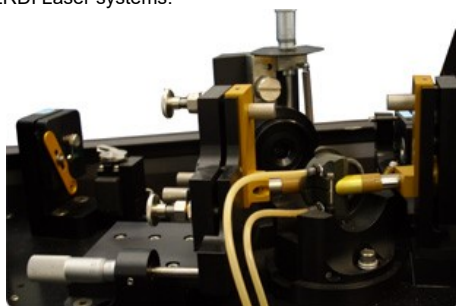


[532nm.com](#) > VERDI LASER

VERDI DPSS High-Power CW Laser

Coherent Verdi V2, Verdi V5, Verdi V6, Verdi V8, Verdi V10, Verdi V12, Verdi V18

Laser Innovations offers sales, service and support for your Coherent VERDI Laser System. We service all of the 532nm VERDI Laser Systems as well as the 355nm and 266nm VERDI Laser systems.



[Avia 532-32](#)
[Avia 532-28](#)
[Avia 532-45](#)

[Viper V5](#)
[Viper V8](#)
[Viper V10](#)

Specifications:

VERDI LASER

| | Verdi V2 | Verdi V5 | Verdi V6 | Verdi V8 | Verdi V10 | Verdi V12 | Verdi V18 |
|-------------------------------------|---|----------|----------|----------|-----------|-----------|-----------|
| Wavelength | 532 nm | | | | | | |
| Output Power | > 2W | > 5W | > 6W | > 8W | > 10W | > 12W | > 18W |
| Output Power Stability ¹ | ±1% | | | | | | |
| Number of Diodes (FAPs) | 1 | | | | | | 2 |
| Linewidth ² | < 5 MHz | | | | | | |
| M ² | < 1.1 | | | | | | |
| Noise | < 0.03 RMS (Measured from 10 Hz to 1 GHz) | | | | | | |

Beam

| | |
|---|------------------------------------|
| Divergence, Full Angle | < 0.5 mrad |
| Pointing Stability/Drift ³ | < 2 μrad/°C |
| Polarization Ratio | > 100:1 Vertical |
| 1/e ² Beam Diameter ⁴ | 2.25 mm ±10% |
| Beam Exit Location (XY ref. bottom/left baseplate) | 2.75 x 2.125 in (6.99 x 5.4 mm) |

Operating Conditions

| | | |
|---------------------|-------------------------------------|-----------------------------|
| Ambient Temperature | (during operation) | |
| Laser head | +15°C to +45°C | |
| Power Supply | +15°C to +35°C | |
| Cooling | | |
| Power Supply | Air-Cooled | Air-Cooled |
| Laser Head | Air-cooled (Water Cooling Optional) | Closed Loop (Water-cooling) |

Electrical

| | | | |
|-------------------------|----------------|--------------|---------------|
| Voltage | 100 to 240 VAC | | |
| Single-Phase, 3-Wire | | | |
| Frequency | 50/60 Hz | | |
| Power Consumption | 380 to 780 W | 420 to 780 W | 900 to 1300 W |
| Operating Current, max. | 7.8A @ 100 VAC | | 13A @ 100 VAC |

Mechanical

| | | |
|--------------|---------------|---------------|
| Weight | | |
| Laser Head | 8 lb (8 kg) | 18 lb (8 kg) |
| Power Supply | 59 lb (27 kg) | 73 lb (33 kg) |
| Umbilical | | |
| Length | 10 ft (3 m) | |

| | | |
|----------------------------------|-----------------------------------|---------------------------|
| Diameter | 1.5 in. (3.81 cm) | |
| Bend Radius, min. | 3.0 in (7.62 cm) | 4.0 in (10.16 cm) |
| Dimensions, (LxWxH) | (Approximate for shipping) | |
| Laser Head | 22 x 6 x 5 in | |
| (w/umbilical bend radius) | (56 x 16 x 13 cm) | |
| Power Supply | 23 x 17 x 11 in | |
| | (59 x 44 x 28 cm) | |

¹ Average over 2 hours with a 15 minute warm-up.

² Measured over 50 msec with a thermally stabilized reference etalon at maximum specified output power.

³ Measured as far-field x and y positions over a 25°C to 35°C temperature change.

⁴ Located within ~0.5m of exit port.

Specifications are for reference only and do not constitute warranty specifications on serviced lasers by Laser Innovations.

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