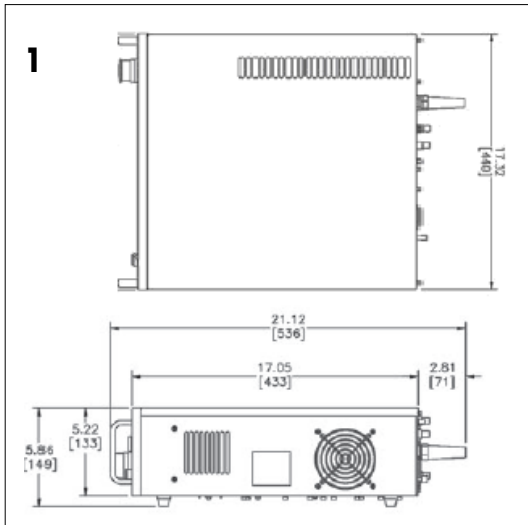


Laser heads **DPSS-Series**

DPSS Laser Series 355 nm, 532 nm, 1064 nm

**Exceptional Quality,
Extraordinary Efficiency**



DPSS laser systems feature single mode (TEM00) beam operation and the shortest Q-Switch pulse duration among same class lasers. This enables higher energy density, higher peak power and provides the capability for better materials processing than competing systems. DPSS laser systems are built using Nd:YVO4 crystals for better pumping efficiency than other crystal types. Thermoelectric (TE) cooling enables highly efficient thermal management while eliminating the need for external chillers.

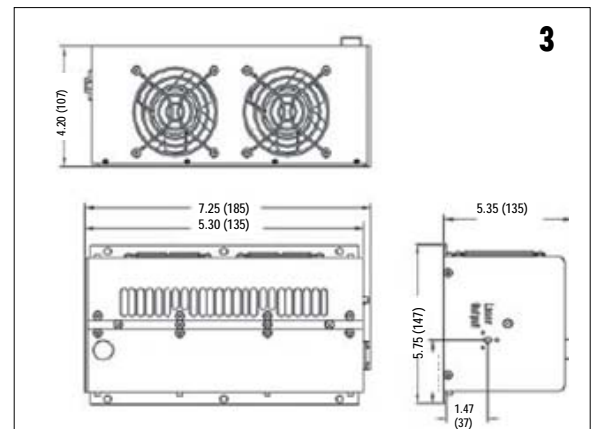
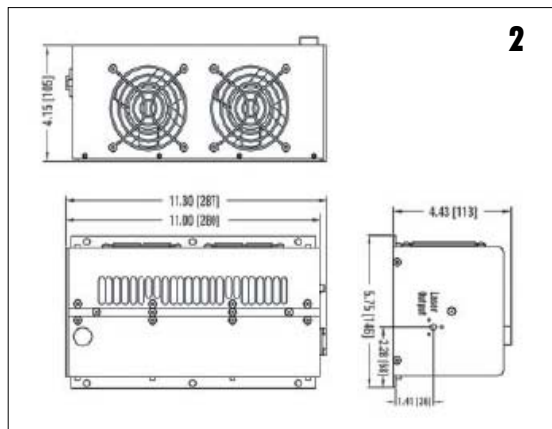
Laser control is available through the controller using the following options:

- RS232 serial communication
- Analog current control for pumping source (0-10V)
- Analog FPS control for laser source (0-10V)
- Programmable digital I/O's (PLC - compatible)
- Remote interlock
- Firmware update in the field through RS232
- CSA/CE Certified

1. Laser Diode Controller

2. Laser Source 355 nm

3. Laser Source 1064 nm and 532 nm



355 nm SERIES MODEL

UP-2V 2 Watts

DIMENSIONS

Controller (American):.....17.1" x 17.5" x 5.2"
Controller (Metric):... 433mm x 445mm x 133mm
Resonator (American):.....11" x 5.75" x 4.15"
Resonator (Metric):... 279mm x 146mm x 105mm
Fiber Length:.....Standard 2m (Up to 10m)
Controller Weight (American): 25.2lbs (11.5kgs.)
Resonator Weight:.....10lbs (4.5kgs.)

GENERAL SPECIFICATIONS

Power Levels:.....2W @ 30kHz
Pulse Width:.....~5 ns @ 30kHz
Frequency:..... 5-200kHz
Pulse Energy:.....~0.07 mJ @ 30kHz

BEAM SPECIFICATIONS

Mode:..... TEM00
Beam Quality M2:.....~ 1.4
Beam Ellipticity:..... < 20%
Beam Pointing Stability:.....< +/- 0.1 mrad
Polarization:..... > 1:100 (Vertical)
Beam Diameter at Output:.....~ 1mm
Beam Divergence, full angle:.....~ (2.5-3) mrad

OPERATING CONDITIONS

Temp Range (F):.....46-95°F
Temp Range (C):..... 10-35°C
Humidity Range:.....10-95%, non-condensing
Warm-Up Time:.....~ 5 min

532 nm SERIES MODEL

UP-6G 6 Watts

DIMENSIONS

Controller (American):.....17.1" x 17.5" x 5.2"
Controller (Metric):... 433mm x 445mm x 133mm
Resonator (American):.....7" x 5.75" x 4.15"
Resonator (Metric):... 178mm x 146mm x 105mm
Fiber Length:.....Standard 2m (Up to 10m)
Controller Weight (American): 25.2lbs (11.5kgs.)
Resonator Weight:.....6.5lbs (2.9kgs.)

GENERAL SPECIFICATIONS

Power Levels:.....6W @ 35kHz
Pulse Width:.....~7 ns @ 35kHz
Frequency:..... 5-200kHz
Pulse Energy:.....~0.2 mJ @ 30kHz

BEAM SPECIFICATIONS

Mode:..... TEM00
Beam Quality M2:.....~ 1.3
Beam Ellipticity:..... < 20%
Beam Pointing Stability:.....< +/- 0.1 mrad
Polarization:..... > 1:100 (Horizontal)
Beam Diameter at Output:.....~ 0.5mm
Beam Divergence, full angle:.....~ 2.5 mrad

OPERATING CONDITIONS

Temp Range (F):.....46-95° F
Temp Range (C):..... 10-35° C
Humidity Range:.....10-95%, non-condensing
Warm-Up Time:.....~ 5 min

1064nm SERIES MODEL

UP-10 10 Watts

UP-15..... 15 Watts

DIMENSIONS

Controller (American):.....17.1" x 17.5" x 5.2"
Controller (Metric):... 433mm x 445mm x 133mm
Resonator (American):.....7" x 5.75" x 4.15"
Resonator (Metric):... 178mm x 146mm x 105mm
Fiber Length:.....Standard 2m (Up to 10m)
Controller Weight (American): 25.2lbs (11.5kgs.)
Resonator Weight:.....6lbs (2.5kgs.)

GENERAL SPECIFICATIONS

Power Levels:.....10W & 15W (All CW)
Pulse Width:.....~10 ns @ 20kHz
Frequency:..... 0-200kHz
Pulse Energy:.....~0.30 mJ @ 20kHz (10W)
.....~0.45 mJ @ 20kHz (15W)

BEAM SPECIFICATIONS

Mode:..... TEM00
Beam Quality M2:.....~ 1.2
Beam Ellipticity:..... < 10%
Beam Pointing Stability:.....< +/- 0.1 mrad
Polarization:..... > 1:100 (Vertical)
Beam Diameter at Output:.....~ .5mm
Beam Divergence, full angle:.....~ 2.5 mrad

OPERATING CONDITIONS

Temp Range (F):.....46-95°F
Temp Range (C):..... 10-35°C
Humidity Range:.....10-95%, non-condensing
Warm-Up Time:.....~ 3 min

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