

RMI DPSS LASER SERIES 355nm | 532nm | 1064nm



Exceptional Quality, Extraordinary Efficiency

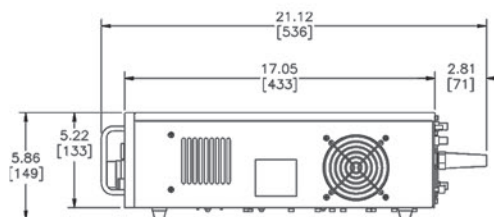
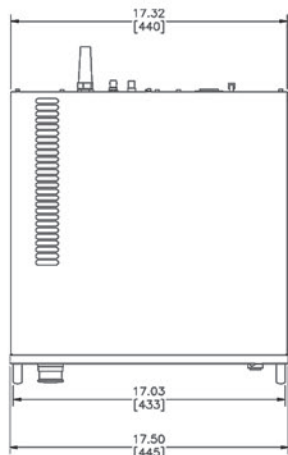
RMI DPSS laser systems feature single mode (TEM00) beam operation and the shortest Q-Switch pulse duration among same class lasers. This enables higher energy density, higher peak power and provides the capability for better materials processing than competing systems.

RMI 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.

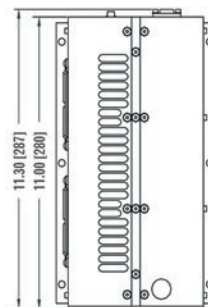
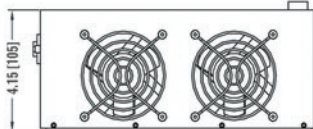
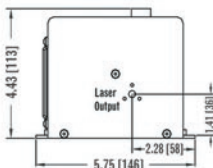
Laser control is available through the controller using the following options:

- 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

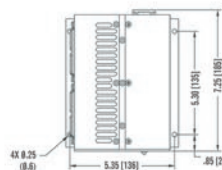
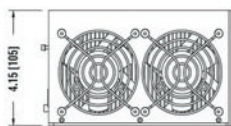
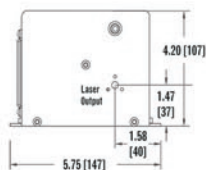
Laser Diode Controller



Laser Source 355nm



Laser Source 1064nm and 532nm



Distributed by:



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355nm 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

532nm 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 MODELS

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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