



Exceptional Quality, Extraordinary Efficiency

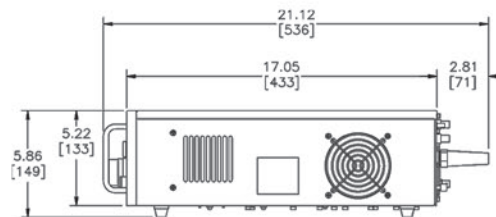
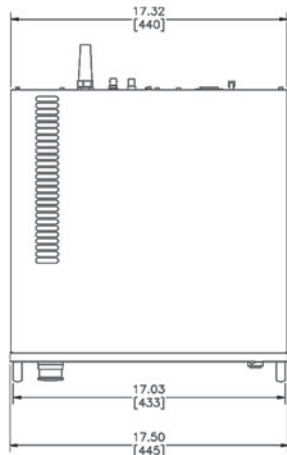
RMI DPSS laser systems feature single mode (TEM00) beam operation and the shortest Q-Switch pulse duration among same class lasers. This enables higher energy density, higher peak power and provides the capability for better materials processing than competing systems.

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.

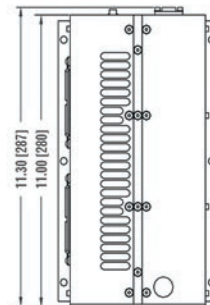
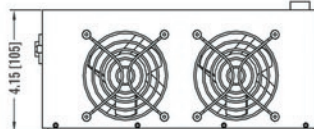
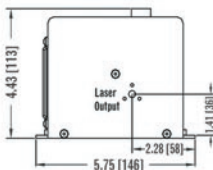
Laser control is available through the controller using the following options:

- 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

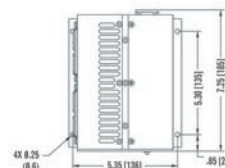
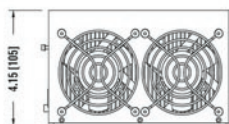
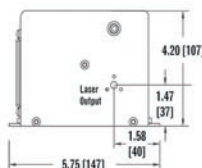
Laser Diode Controller



Laser Source 355nm



Laser Source 1064nm and 532nm





RMI LASER, LLC.

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RMILASERLLC.COM

2007年9月末発売予定 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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光技術をサポートする
株式会社オプトサイエンス

<http://www.optoscience.com>

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