

DATA SHEET



- **Output Current up to 200 A**
- **Up to 300 μ s pulse width**
- **Rise-time of <10 μ s**
- **Single-shot to 20 PPS**
- **Current monitor output 1 volt/100 amps**
- **Optimized for driving up to 12 bar stacks**
- **Only 2.9 oz**
- **Actual dimensions: 1.9" x 1.94" x 1.24"**

The PLDD-200-12-20-2X2 is an ultra-compact and light weight version of our standard 200 amp pulsed current source designed to drive laser diode bars, arrays of laser diode bars, or any low impedance load. The unit features a high peak current of 200 amps with a rise-time of <10 μ s (load dependent) and a maximum pulse width of 300 μ s. The pulse repetition frequency can be varied from single shot to 20 PPS.

The output current amplitude can be controlled by either an analog voltage or an on-board potentiometer (jumper selectable). The pulse

width is controlled by the duration of the input trigger signal.

Using the optional Universal Interface Board (UIB-01), the user has easy access to all control pins. Commonly used signals on the UIB-01 are available through BNC connections such as the input trigger and the current monitor which allows the user a real time view of the current.

The PLDD-200-12-20-2X2 requires a user supplied +15 to +28 volt input supply.

OMNIPULSE TECHNOLOGY

6295 Ferris Square, Suite D, San Diego, CA 92121

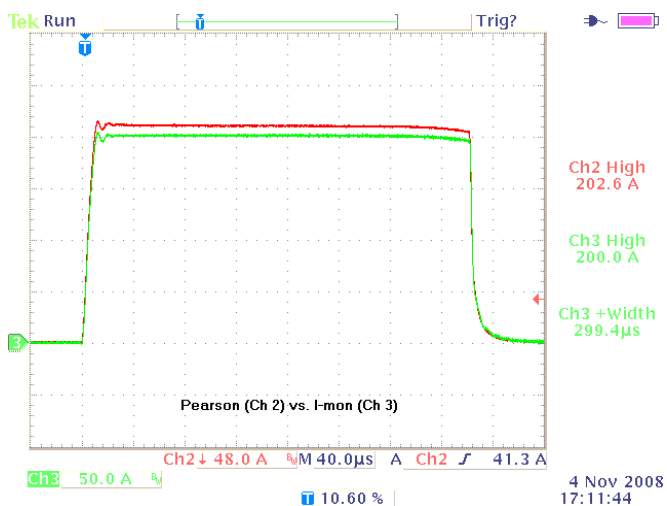
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SPECIFICATIONS++	
Parameter	Value
Pulse Output Current	
Amplitude Range	0 – 200 A†
Means of Adjustment	Analog input/internal adjustment with potentiometer
Pulse Rise Time	<10 μs
Pulse Width	0-300 μs (analog or digital input)
Pulse Recurrence Frequency Range	Up to 20 PPS at max current (300 μs pulse)
Output Voltage	24 V max**
Output Connection	Twisted pair AWG 16
Trigger Requirements	
Type	3.3/5 volt CMOS Input
Outputs	
Current Monitor	1 volt/100 amps into >10 kOhm 0.5 volt/100 amps into 50 Ohms
General	
Input Power	16-28 volts, ~40 mA typ. (idle) 24 volts, 1.6 A (20 PPS, 200 Apk, 300 μs, 22 V load)
Dimensions (H X W X D) inches	1.24" X 1.9" X 1.94"

Current Monitor Output
200 A / 300 μs pulse



Comparison of the I-mon output and a Pearson current monitor.

**At 200 amps and 300 μs. Consult factory for other load requirements

† <5% droop @ max current

††Specifications are subject to change without notice.

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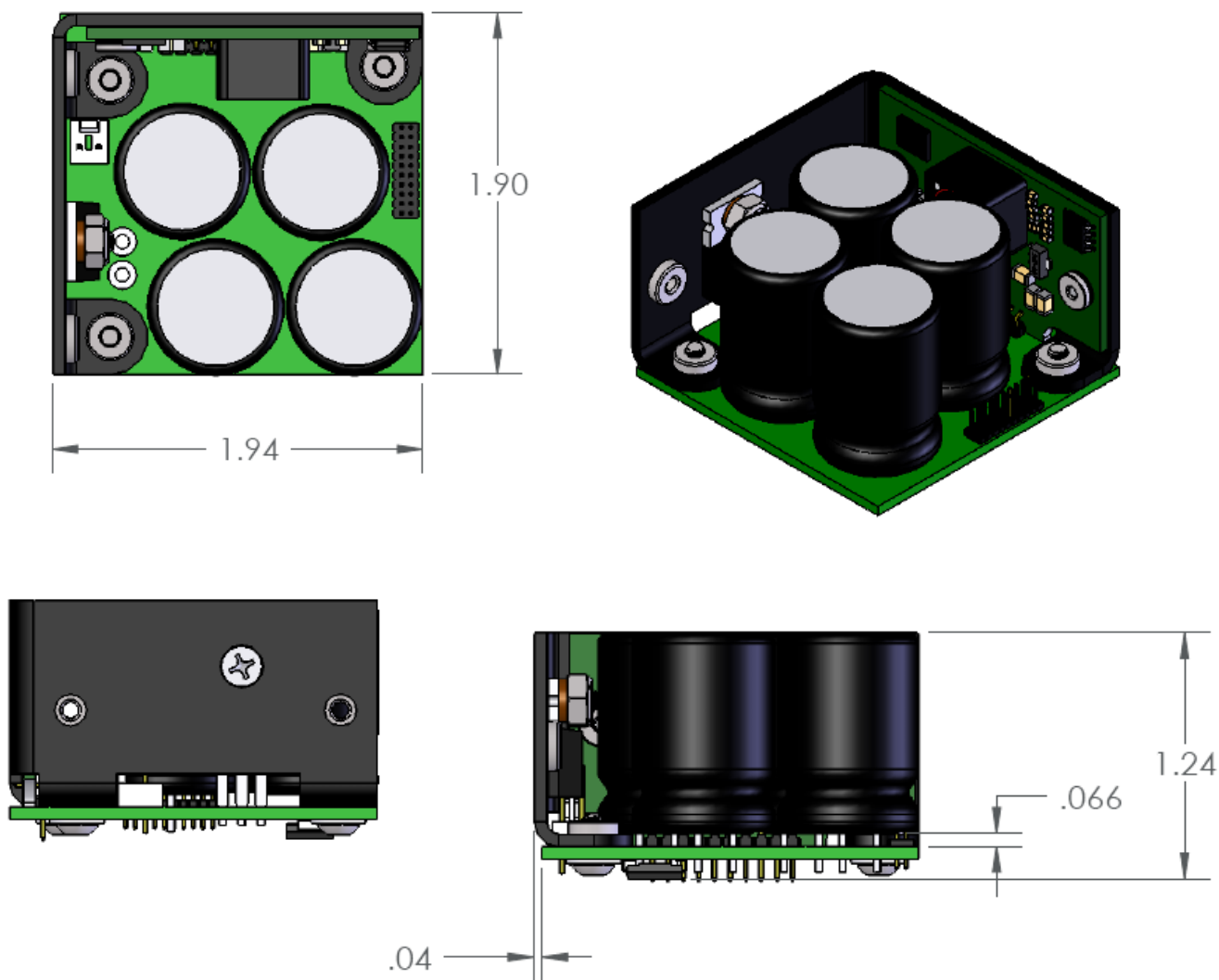
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PLDD-200-12-20-2X2

200 AMP, 12 BAR, 20 Hz, 2" x 2" PULSED LASER DIODE DRIVER

PHYSICAL DIMENSIONS*



**Dimensions subject to change without notice.*

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