



200 Amp Pulsed Laser Diode Driver

- OUTPUT CURRENT UP TO 200 AMPS
- UP TO 300 μ s PULSE WIDTH
- RISE TIME OF <10 μ s
- SINGLE-SHOT TO 20 Hz
- OPTIMIZED FOR DRIVING UP TO 12 BAR STACKS
- ONLY 2.9 oz



DESCRIPTION:

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. 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 V input supply.

SPECIFICATION:

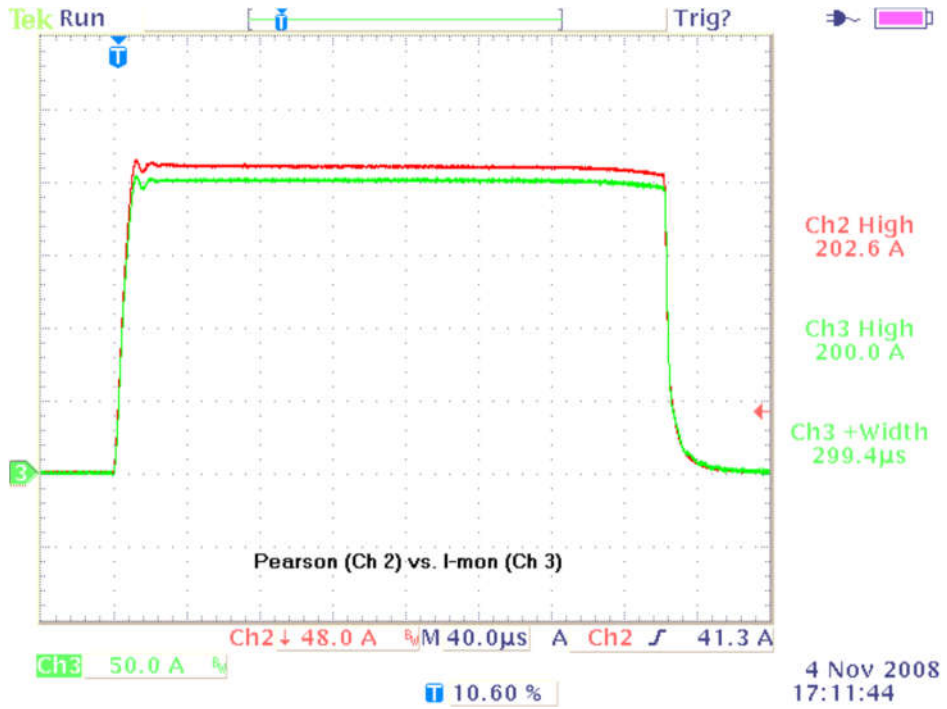
| PARAMETER | Min. | Typical | Max. | Units |
|---|------|---------|------|--------------|
| Pulse Output Current | | | | |
| Amplitude Range | 0 | - | 200 | A |
| User supplied DC control voltage (1.2 V=120 A) | 0 | - | 1.2 | V |
| Pulse Risetime | - | <10 | - | μ s |
| Pulse Width | 0 | - | 300 | μ s |
| Compliance Voltage | 3 | - | 24 | V |
| CMOS Trigger | 3.3 | - | 5 | V |
| Current Monitor Into >10 k Ω (1 V/100 A) | 0 | - | 2 | V |
| Into 50 Ω (0.5 V/100 A) | 0 | - | 0.5 | V |
| Input Power (consult factory for battery operation) | 15 | - | 28 | V at 1.6 A |
| Operating Temperature Range | -25 | - | +65 | $^{\circ}$ C |

Specifications are subject to change without notice.

APPLICATIONS:

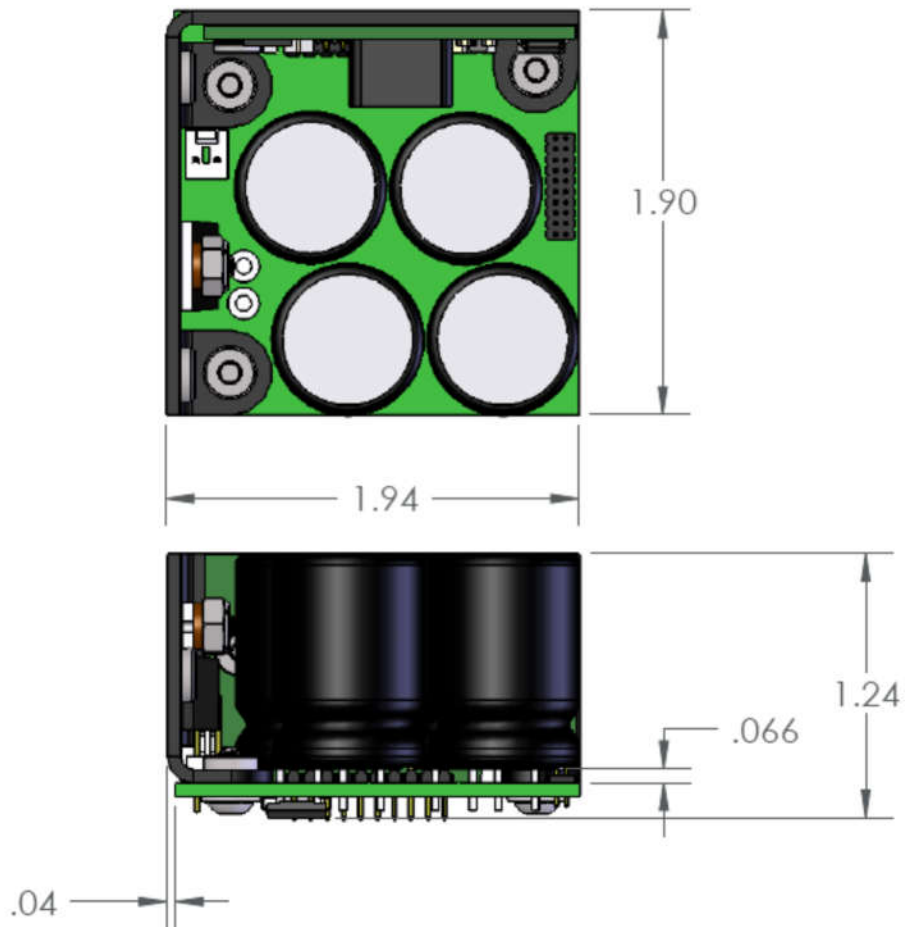
Range-finding, remote sensing, research, defense and security applications

Current Monitor Output
120 A / 300 μ S pulse



Comparison of the I-mon output (lower trace) and a Pearson current monitor (upper trace).

PHYSICAL DIMENSIONS*



*Subject to change without notice.