

## Specification for Quasi-CW laser diode driver

1. Output current up to 150A
2. Output voltage up to 100V
3. Pulse repetition rate: 1 to 5 KHz
4. Pulse rise time: < 10 micro second
5. Variable pulse width: 50 microsecond to 5 millisecond
6. Output pulse width stability: < 0.5%
7. Output pulse amplitude stability: < 0.5%
8. Over/undershoot: < 5%
9. Shot to shot pulse jitter: < 10 ns
10. Maximum duty cycle up to 2% @150A
11. Compliance voltage range: 5V to 100V
12. Monitor outputs: Current monitor port, Voltage monitor port and sync monitor port.
13. External trigger input port.
14. User selectable slow-start option
15. Laser diode protection features: Output is electronically shorted to ground when the driver is turned off or not pulsing.
16. Safety features: output cable safety interlock, remote interlock and delayed output enable.
17. IEEE-488 (GPIB) computer interface
18. Input AC Power: 110 V, 60 Hz