

Laser Driver LDD100

Packs a punch!



Why?

- Powerful: up to 600A
- Fast: 70ns rise time
- Ideal for testing laser diodes



SDK Kit



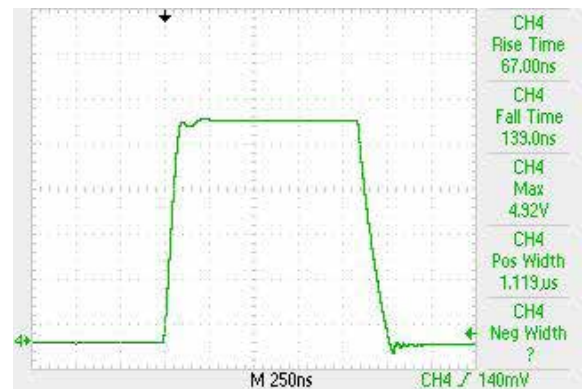
Contact cards

Details!

The LDD100 is a fast and powerful pulsed current source for driving laser diodes and high power LEDs in the lab as well as for OEM applications.

We offer this instrument with various end stages with current ranges from 0.5A to 600A. The graphical user interface is clear and intuitive to use.

Various pulse sequences are selectable including single shot, staircase and burst mode. The user programmable bias current allows continuous simmering of the laser during a pulsing sequence.



What?

- Control via key pad and LCD display
- Current: up to 600A
- Rise time: <70ns at max. current
- USB controlled via GUI

A wide range of device contact cards are available.

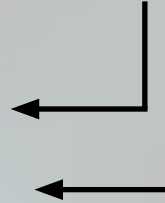
Nine profiles can be stored using alphanumeric real names. This greatly simplifies use in a lab environment.

Your problem is our challenge, flexibility is our standard!

Please contact us for customized units. We will gladly adapt, for example, the current range or the casing to suit your application. Let us know your requirements.

ORDER CODE: 

LDD100-SC



Speed	F	fast pulse
	L	long pulse
	XL	extra long pulse
Standard Currents	F	40A / 120A
	L	40A / 120A / 200A / 400A
	XL	40A / 120A / 200A / 400A / 600A

Specifications:

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
OUTPUT					
Current range (maximum current to be specified at time of order within the range 0.5-600A)	F-Version: 2µs pulse L-Version: 5µs pulse XL-Version: 10µs pulse	$I_{max} / 200$		I_{max}	
Accuracy			± 0.2	± 0.5	%
Rise time ¹	F-Version L-Version XL-Version		70 400 1.5	100 600 3	ns ns µs
Pulse duration ²		50		3	ns s
Resolution of pulse duration	50ns to 1.5 ms 1.5ms to 3s	50		0.01	ns %
Repetition rate				100	kHz
Pulse separation		10		10	µs s
Resolution of pulse separation	10µs to 100ms 100ms to 1s 1s to 10s	10	100	1	µs µs ms
Duty cycle (Data shown as examples only. Any max. current from 0.5A to 600A may be ordered)	F-Version: 1A 10A 120A L- and XL-Version: 1A 10A 200A 400A 600A			80 8 0.7 100 16 0.8 0.4 0.3	%
Compliance Voltage ³	F-Version L-Version XL-Version	8 8 8		20 10 10	V
Connector	Control unit to head Head to laser	LEMO Strip line			
PC INTERFACE					
Type		USB 2.0			
TRIGGER					
Type		Internal External: sequence start External: individual pulse control			
POWER SUPPLY					
Voltage		88 - 264			VAC
Frequency		47 - 63			Hz
Power factor		0.95			
DIMENSIONS					
	Control unit Current head	250 x 245 x 155 (W x L x H) 105 x 190 x 55 (W x L x H)			mm mm

¹ At full output. Maximum Current for F-Version is 120A.

² Maximum value dependant on set current. See SOA graphs in user's manual.

³ Requires use of strip line contacting.