

Packs a punch!

## Laser Driver LDD100



### Highlights:

Strong: up to 400A

Fast: 50ns rise time

Flexible

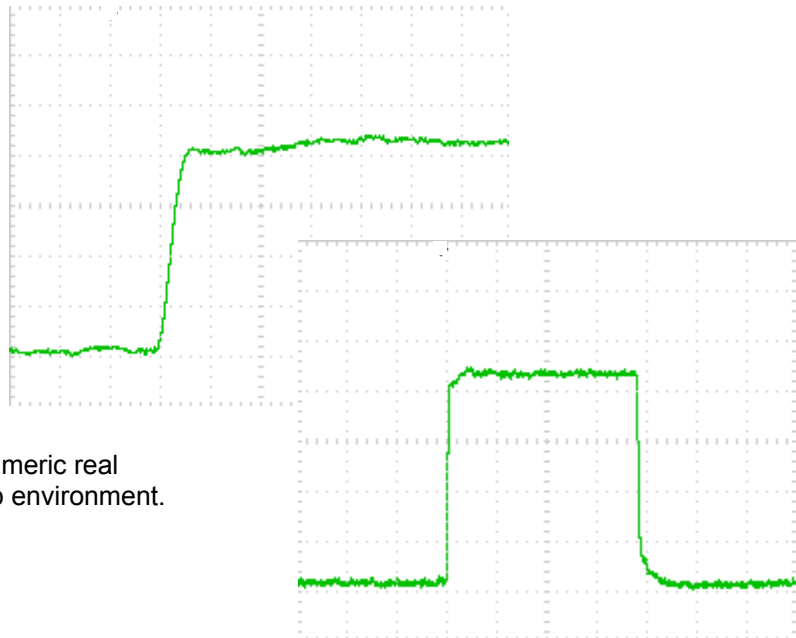
### Our offer in Detail:

The LDD100 is a powerful laser driver for use in the lab as well as for OEM applications. We offer this instrument with various end stages with current ranges from 1A to 400A. 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.

### Specifications

- Current: up to 400A
- Rise time: <50ns at 60A
- USB controlled via GUI
- Control via key pad and LCD



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:

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

## Ordering Information

Long pulse version: LDD100-L<sub>c</sub>

max. current (c) ←

Fast rise time version: LDD100-F<sub>c</sub>

max. current (c) ←

Please contact us for customized units.

## Specifications

PARAMETER	CONDITIONS				UNITS
		MIN	TYP	MAX	
<b>OUTPUT</b>					
Current range	LDD100-40 LDD100-120 LDD100-200	0.08 0.24 0.4		40 120 200	A
Connector	Control unit to head Head to laser	LEMO Strip line			
Rise time	L-Version F-Version		420 50 <sup>1</sup>	500 70	ns
Fall time	L-Version F-Version		450 80	600 100	ns
Pulse duration <sup>2</sup>		50		3	ns s
Resolution of pulse duration	50ns to 1.5ms 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
Compliance voltage		4		20	V
Duty cycle	Fast rise time version LIV100-F002 LIV100-F040 LIV100-F080 LIV100-F120 Long pulse version LIV100-L002 LIV100-L040 LIV100-L080 LIV100-L120 LIV100-L200			42 2.1 1.0 0.7 87 15 7.5 5 3	%
Accuracy		± 2			%
Reproducibility		± 1			%
Linearity			± 1		%
<b>PC INTERFACE</b>					
Type		USB			
<b>TRIGGER</b>					
Type		Internal External: sequence start External: individual pulse control			
<b>POWER SUPPLY</b>					
Voltage		88 – 264			VAC
Frequency		47 – 63			Hz
Power factor		0.95			
<b>DIMENSIONS</b>					
	Control unit Current head	250 x 235 x 150 mm (W x L x H) 105 x 190 x 55 mm (W x L x H)			mm mm

<sup>1</sup> At 60A using F-version. Maximum Current for F-Version is 120A.

<sup>2</sup> Dependant on set current. See SOA graphs in user's manual.