

Packs a punch!

Laser Driver LDD100



Highlights:

Strong: up to 400A

Fast: 50ns¹ rise time

Flexible

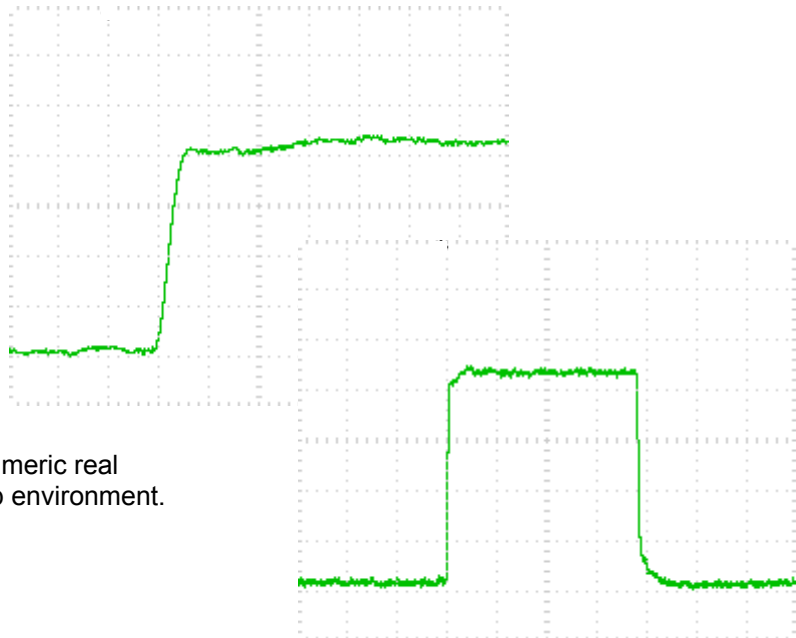
Our offer in Detail:

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-Lc

max. current (c) ←

Fast rise time version: LDD100-Fc

max. current (c) ←

Please contact us for customized units.

Specifications

PARAMETER	CONDITIONS				UNITS
		MIN	TYP	MAX	
OUTPUT					
Current range	LDD100-40 LDD100-120 LDD100-200	0.01 0.02 0.05		40 120 200	A
Connector	Control unit to head Head to laser	LEMO Strip line			
Rise time	L-Version F-Version		420 50 ¹	500 70	ns
Fall time	L-Version F-Version		450 80 ¹	600 100 ¹	ns
Pulse duration		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 LDD100-F002 LDD100-F040 LDD100-F080 LDD100-F120 Long pulse version LDD100-L002 LDD100-L040 LDD100-L080 LDD100-L120 LDD100-L200			62 3.7 1.8 1.2 87 15 7.5 5 3	%
Accuracy		± 2			%
Reproducibility		± 1			%
Linearity			± 1		%
PC INTERFACE					
Type		USB			
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 235 x 150 mm (W x L x H) 105 x 190 x 55 mm (W x L x H)			mm mm

¹ At 60A using F-version. Maximum Current for F-Version is 120A.