

# LDA-120A

## CW / QCW LASER DIODE ARRAY DRIVER



LDA-120A new family of laser diode drivers specifically designed for current-driving of high power laser diode arrays (laser diode bars), stacks, and DPSS laser modules. The LDA-120A is ideal for high-power applications where efficiency is important and performance cannot be compromised. The entire LDD family has been designed by a team of professional scientists and engineers.

### Main Features

- > Perfect for driving QCW laser diode stacks
- > Air cooled / water optional
- > Ultra Low noise in CW
- > Over-Current and Over-Temp Limits
- > Current slow start for long diode life
- > up to 100 V, 120A QCW drive

### Applications

- > **Systems integration** with high-power solid-state lasers;
- > **Industrial lasers driving** : welding of plastics, metal soldering and annealing
- > **Medical equipment integration**: hair removal, surgery, dentistry and ophthalmology
- > **Research and development**

### Key Advantages

- Highest power/price ratio on the market
- Easy to use
- Adjustable bias current
- Short rise/fall time with reduced transient voltages
- Safe turn-on/turn-off

### What is Special?

We understand your high power laser diode is sensitive and costly device which should be protected from damage. Thus, our rise and fall times are strictly controlled in order to reduce transient voltages (spikes or surges), which could damage your laser diode. Furthermore, we provide you with adjustable bias current, enabling you to ensure constant diode heating and reducing thermal stress. Therefore prolonging diode lifetime.

## Specifications

LASER DIODE DRIVER TECHNICAL SPECIFICATIONS		
Model:	LDA-120A-ET	LDA-120A-XX-V
Modes of operation:	Pulsed, CW Mode, Mixed Mode	
Power supply for diode array:	External, 100 V max	internal, fixed voltage 24, 36, 48, 56, 64, 78, 96 V (others on demand)
Compliance voltage:	5-90 V (external voltage - 10V)	internal voltage – 10 V
PULSED MODE		
Pulse current:	0-120 A	
Pulse duration	50-1000 us (FWHM)	
Max. filling factor	0 – 100% (Depending on average current)	
Max. average current:	20A	
Max output power:	1400W	< 1200W, Depending on installed AC/DC module
Pulse rise time:	30us (@100A)	
Pulse fall time:	25us (@100A)	
External Sync :	YES, TTL	
Sync Output:	YES, TTL	
CW MODE		
Max output power:	2000 W	< 1200 W, Depending on installed AC/DC module
CW current:	0-60A	

