

# LDDHC High Current Diode Drivers



The LDDHC series is a new family of OEM laser diode drivers designed for the emerging high power laser diode industry. With output currents to 200amps the LDDHC series is available in 3 power levels and a wide range of compliance voltages.

Compact size is possible due to the low-loss Zero Voltage Switching inverter and incorporation of planar magnetics. The LDDHC is virtually wire free. Power factor is greater than 0.99 and conducted emissions meet stringent European regulations. No additional line filter is required to meet EN 55011 emission requirements.

The LDDHC family has been designed with the knowledge that a high power laser diode is an expensive device. Rise and fall times are strictly controlled to reduce high voltage transients which could damage the laser diode.



## Advantages

- Output Currents to 200A**
- Ideal for OEM applications**
- Safe turn-on/turn-off**
- Compact design**
- Power factor correction**
- Low conducted emissions**
- Auxiliary +15V/-15V/+5V**
- Low leakage**
- RoHS Compliant**

## Models

- LDDHC-600    600 watts**
- LDDHC-1000    1000 watts**
- LDDHC-1500    1500 watts**

# LDDHC Series Laser Diode Drivers

## Specifications:

### Input

Voltage:	
LDDHC-600/1000	100 to 240VAC $\pm$ 10% 50/60Hz
LDDHC-1500	200 to 240VAC $\pm$ 10% 50/60Hz
Power Factor:	>.98
Efficiency:	>80%

### Interface

Connector:	15 Pin "D" Sub Female
Enable:	+5V to +15V (High=run)
Current Program:	0-10V for 0-Max Current
Current Monitor:	0-10V for 0-Max Current
Voltage Monitor:	0-10V for 0-Max Voltage

For more information contact us at: 978-241-8260  
[sales@luminapower.com](mailto:sales@luminapower.com)  
[www.luminapower.com](http://www.luminapower.com)

### Performance

Rise/Fall Time:	<1 ms. Standard (10% to 90% full Current) (<600us. Available)
Line Regulation:	<0.5% of maximum output current
Current Regulation:	<0.5% of maximum output current
Current Ripple:	<0.5% of maximum output current
Current Overshoot:	<1% of maximum output current
Power Limit:	Limited to maximum power with power fold-back circuit

### Dimensions

10.2"L x 8.0"W x 2.6"H (25.9 x 20.3 x 6.6 cm)  
 Weight: 8 pounds  
 (Contact customer Service for outline drawings)

### Environment

Operating Temp:	0 to 40°C
Storage:	-25to 85°C
Humidity:	0 to 95% non-condensing
Cooling:	Forced air

### Regulatory

Safety:	UL60950
Emissions/Immunity:	FCC 47 CFR Class A Emissions, EN55011:1998 Group 1 Class A Emissions, EN61000-3-2, EN 6100003-3, EN60601-1-2:2001