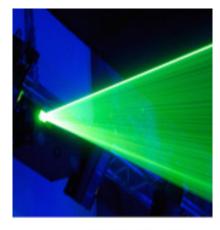


Diode Pump Lasers



Medical Lasers

High Power Laser Diode Drivers



Digital Projection



Laser Welding

Your contact:





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Why Lumina Power?

Lumina is the largest supplier of OEM laser power supplies Our excellent pricing and fast delivery services earn us lifelong customers We offer the most complete line of high power Laser Diode Drivers Capacitor Charging power supplies with all popular options Xenon & Mercury Arc Lamp power supplies and "short pulse" ignitors Innovative custom products from prototype to volume manufacturing Reliable sales & technical support worldwide.

With experience in high voltage (>300kV) and high power (>150kW), our R&D department can adapt configurations from our library of power supply topologies to meet any requirement imaginable.

Lumina Power, Inc. manufactures a complete line of Capacitor Charging Power Supplies, Capacitor Chargers, laser diode drivers, laser power supplies and Xenon arc lamp power supplies. With over twenty-five years of cumulative power supply design and manufacturing expertise, Lumina Power is able to offer standard and custom laser power designs that solve challenging OEM applications and meet stringent agency safety and emission requirements. Lumina Power's products include high power laser diode drivers, capacitor charging power supplies and Xenon & Mercury arc lamp power supplies.



LDP

The LDP pulsed laser diode drivers are the second generation of precision pulsed diode drivers offered by Lumina Power. Building on more than a decade of experience in laser diode driver technology the new LDP drivers are capable of outputting up to 400 amps. Pulse widths of 50µs through CW operation are now possible at reprates to 5kHz (higher Rep-rates Optional).

The LDP incorporates new technology that enhances pulsed performance while reducing circuit complexity, shrinking the size of the package and increases reliability.



Features

- 1000/2000 Watts Average Output
- Output Currents to 400A
- Output Power to 80kW Peak
- Compliance Voltages to 200V
- Pulse Widths From 50µs to CW
- 10µs Rise/Fall Time
- Repetition Rates to 5kHz.
- Universal Input Voltage
- Auxiliary ±15 Volt Output



Features

- 600 to 2000 Watts Output
- Output Currents to 100amps
- Compliance Voltages to 200V
- Performance Level E Safety
- Power Factor Correction
- Universal Input Voltage
- Auxiliary +15/-15, +5V
- Low Conducted Emissions
- RoHS Compliant

LDN

The New LDN series laser diode drivers are the second generation of precision CW/Pulsed diode drivers offered by Lumina Power. Building on more than a decade of experience in laser diode driver technology the new LDN family incorporates the features of the LDD and LDY models.

New upgrades include increased energy storage for better pulsed performance, newly designed magnetics for cooler operation, lower inrush current at start-up and availability of an optional Performance Level "E" laser safety feature.

Offered in 4 power levels from 600 to 2000 watts the LDN family of laser diode drivers offer laser designers the most advanced and proven power supply technology available.



LDDHC

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 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



Features

- DC input board level diode driver
- For CW & pulsed applications
- Compact design, low cost
- 50 Amp max. output

LDPC

The LDPC series laser diode drivers offer the laser designer a compact low cost power supply for a variety of medical and industrial applications. In order to take full advantage of this unique product, care must be taken during the design process to ensure long term reliability.

This data sheet includes answers to many commonly asked questions about the various configurations available and includes critial cooling and electrical information.



LDQPC

The LDQPC quasi-pulsed laser diode drivers are specifically designed for low cost high volume applications. These DC input modules are available with average output power to 75 watts and current output to 200 amps. With a rise/ fall time of typically 10us. they are ideally suited for compact short pulse laser applications. All configurations require 12 or 24VDC input and feature a simple analog interface.

Output current and voltage can be specified to meet your requirements. Built around the same topology that has made Lumina Power laser diode drivers the standard of the industry, these board level products offer the reliability and diode protection of the LDP series in a compact easy to integrate package.



FEATURES

- 75 Watts Average Power
- 10us. Rise/Fall Time (typi cal)
- 200 Amps Peak Output
- RoHS Compliant
- Analog Interface



ADVANTAGES

- Pulsed current to 1000 amps
- 6kW average output power
- Compliance Voltage: 10 to 150V
- ≤15µs. Rise/Fall time
- Advanced diode protection
- CW simmer mode available
- >90% Efficiency
- Continuously modulate current, pulse width and frequency

HPP

The HPP-6000 laser diode pulser is a new concept in pulsed diode driver development. Designed to be used with the LDD series drivers as the power source, the HPP pulser can deliver up to 1000 amps of output current with full protection of the laser diode. Pulse widths of \geq 50µs to CW can be acheived with rise/fall times of <15µs. and repetition rates to 5kHz. A CW simmer current of up to 12 amps is available.

Control of the HPP pulser via the standard 15 pin analog/TTL interface includes inputs for enable, trigger, output current, simmer voltage and CW/pulsed operation. The output is fully protected against open and short circuits along with overtemp.

THe HPP pulser enhances Lumina Power's complete line of laser diode driver products from 10 watts to 6000 watts.



LDQCW

The LDQCW series is a new family of OEM diode laser pulsars designed for the emerging high power diode laser industry. Lumina Power LDQCW diode drivers can be configured for compliance voltage requirements up to 100V.

Maximum efficiency is realized with circuitry that minimizes losses across the output pulsing circuit. Compact size is possible due to the low-loss Zero Voltage Switching inverter and incorporation of planar magnetics.

Leakage current is less than 250uA, 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.



ADVANTAGES

- <25uSec rise/fall times
- 200A pulsing capability
- Power factor correction
- Auxiliary +/-15V outputs
- Compliance voltage capability up to 100V
- Ideal for OEM applications
- ROHS Compliant



ADVANTAGES

- 400µs. rise/fall times available
- Safe turn-on/turn-off
- Compact design
- Power factor correction
- Auxiliary +15V/-15V/+5V
- Low conducted emissions, low leakage
- ROHS Compliant

LDY

The LDY series is a new family of OEM laser diode drivers with all the performance of Lumina's flagship LDD line of laser diode drivers, as well as additional functions including pulsing capability, over-temperature sensing and crowbar shorting of the output.

The LDY series is ideal for high power applications where economy is important and performance cannot be compromised. Compact size is possible due to the low-loss Zero Voltage Switching inverter and incorporation of planar magnetics. The LDY 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 LDY 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.



LDD

The LDD series are the industrial standard for OEM laser diode drivers and are ideal for high power applications where economy is important and performance cannot be compromised. Compact size is possible due to the lowloss Zero Voltage Switching inverter and incorporation of planar magnetics. The LDD is virtually wire free.

Power factor is greater than 0.99 (1Ø models) and conducted • Compact design emissions meet stringent European regulations. No additional line filters required to meet EN 55011 emission requirements.

The LDD series is designed with multiple safe guards to protect your expensive laser diodes. Rise and fall times are strictly controlled to reduce high voltage transients which could damage the laser diode.



ADVANTAGES

- Ideal for OEM applications
- Safe turn-on/turn-off
- Power factor correction (1Ø models)
- Auxiliary +15V/-15V/+5V
- Low conducted emissions, low leakage
- ROHS Compliant



Feature:

• Easily control any Lumina power supply

• Ethernet connection to computer or network

 Graphical interface for setup and control

· Control and monitor all of the functions of the

power supply

LC

Lumina Power announces the new LC series controller that easily connects your computer to any Lumina Power power supply. This new interface device converts the standard input and output signals from the power supply to an Ethernet connection allowing for GUI control over the various functions of the supply. Users can now control output voltage and current along with enable, interlock and pulsing. Depending upon power supply model, monitor functions include output voltage, current, pulse width, repetition rate, faults and end of charge. Easy to use App included

LDP Pulsed/CW Laser Diode Drivers

Models

Model	Poutmax	loutmax	Pulse Range	Input Voltage
LDP-1000-XX-YY	1000W CW 1000 W Pulsed	400A Pk	50µs. to CW	100 to 240VAC
LDP-2000-XX-YY	2000W CW 1000 W Pulsed	100A CW	30µs. 10 C W	200 to 240VAC

Specifications

OUTPUT

Power:

Current:

See Chart: 200V max. (higher voltages available) 400A (Pulsed)

100 to 240VAC ±10%, 50/60 Hz

200 to 240VAC ±10%, 50/60 Hz

> .98

INPUT

Voltage: LDP-1000: LDP-2000: Power Factor:

INTERFACE

Connector: Current Program: Current Monitor: Voltage Monitor:

PERFORMANCE

Rise/fall Time: Current Regulation: Current Ripple: Current Overshoot: Stable Output Range:

0-10V for 0-Max Current 0-10V for 0-Max Current 0-10V for 0-Max Voltage

15 Pin "D" Sub Female

10µs for Vout <30V <0.5% of Maximum output current <0.5% of maximum output current <1% of max. output current 20 to 100% of rated of rated current

ENVIRONMENT

Operating Temp: Storage: Humidity: Cooling:

0 to 40°C -20 to 85°C 0 to 90% non-condensing Forced air

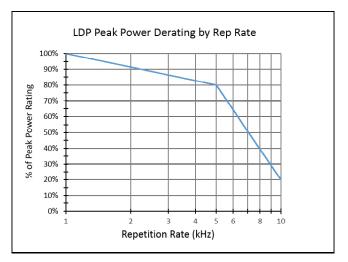
AUXILIARY OUTPUTS

+15V @ 100mA. @ 100mA -15V

CE/Safety Agency Approvals:

IEC 60601-1-2 4th Edition EMC IEC 60601-1 3rd Edition Safety **IECEE CB SCHEME**

Peak Power Derating Curve



Your contact:







LDN Series Laser Diode Drivers

Available Models

Model	Poutmax	loutmax	Input Voltage	Size (L x W x H)
LDN-600-XX-YY	600 Watts			
LDN-1000-XX-YY	1000 Watts	100 amps	100-240VAC ± 10%	9.9" x 7.3"x 2,6"
LDN-1500-XX-YY	1500 Watts		200-240VAC ± 10%	25.1 x 18.5 x 6.6 cm
LDN-2000-XX-YY	2000 watts			
Maximum compliance v	voltage: 200V			

Specifications

NOTE: Lumina Power reserves the right to change the specifications of this product without notice.

INPUT

Voltage: Power Factor: Inrush current See table above >.98 Equal to Vin/10 ohms

INTERFACE

Connector:15 Pin "D" Sub FemaleCurrent Program:0-10V for 0-Max CurrentCurrent Monitor:0-10V for 0-Max CurrentVoltage Monitor:0-10V for 0-Max Voltage(Optional RS232 interface available)

PERFORMANCE

Rise Time: Pulse pin 8 Current Regulation: Current Ripple: Current Overshoot: >25msec using Pin 1 Enable ~600usec (10% to 90% Full Current) <0.5% of Maximum output current <0.5% of maximum output current <1% of maximum output current</p>

Note: Use pulse pin 8 for fast rise times (see page 3)



ENVIRONMENT

Operating Temp:	
Storage:	
Humidity:	
Cooling:	

0 to 40°C -20 to 85°C 0 to 90% non-condensing Forced air

REGULATORY

UL60601-1 (medical) Emissions/Immunity: FCC 47 CFR Class A Emissions, EN55011:1998 Group 1 Class A Emissions, EN61000-3-2, EN61000-3-3, EN60601-1-2:2001 NOTE: Testing to be done March 2014.

AUXILIARY OUTPUTS

+5V @ 200mA +15V @ 200mA -15V @ 200mA

LASER SAFETY (optional)

Performance Level "E" Compliance to ISO DIN 13849-1-2008 Standard

> www.luminapower.com sales@luminapower.com

LDDHC Series Laser Diode Drivers

Specifications:

Input Voltage

LDDHC-600/1000 100 to 240VAC ± 10% 50/60Hz LDDHC-1500 200 to 240VAC ± 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

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 Curren t 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

Environment

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

Regulatory

Safety: ANSI/UL 60950-1, CSA C22.2 No 60950-1, CENELEC EN 60950-1, IEC 60950-1, UL 60601-1, CAN/CSA C22.2No 601.1-M90 Emissions/Immunity:FCC 47CFR Class A, CISPR 11 Group 1 Class A, IEC 61000-3-2, IEC 61000-3-3, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-11



www.luminapower.com sales@luminapower.com

LDPC Diode Driver Data Sheet



Specifications

Maximum Output Power: Maximum Output Current:

Performance

Current Ripple: Regulation: Current Overshoot: Power Limit: Rise/Fall Time:

Interface

Inhibit/Enable: Current Program: Current Monitor: Voltage Monitor:

Protection

Power supply Protection: Laser Diode Protection:

Dimensions

LDPC: Operating Temp: Cooling^{2:} The LDPC series laser diode drivers offer the laser designer a compact low cost power supply for a variety of medical and industrial applications. In order to take full advantage of this unique product, care must be taken during the design process to ensure long term reliabilty. This data sheet includes answers to many commonly asked questions about the various configurations available and includes critial cooling and electrical information.

225 watts: See Chart Page 2 50 Amps

0.2% at maximum output current
0.5% at maximum output current
< 1% of maximum output current
Limited to Maximum power with Fold Back Circuit
3-20µs. depending upon output voltage

5V to 15V to enable output 0 to 10V = 0 to full current 0 to 10V = 0 to full current 0 to 10V = 0 to full voltage¹

Reverse Input voltage, input overvoltage, over temp Control rise/fall times, no overshoot

68.75mm x 150mm x 45mm high 0 to 40°C, 90% RH non condensing See page 3 for fan size and mounting instructions

1. If maximum compliance voltage is less than 10V, Vout Monitor will read output voltage directly. If maximum compliance voltage is greater than 10V, then Vout Monitor will be scaled such that 0-10V = 0-Voutmax.

2. Proper cooling is required for reliable operation. See page 3 for correct fan placement and other cooling recommentations.



LDQPC QUASI-PULSED DIODE DRIVER

Specifications

INPUT Input Voltage: +12 or 24VDC

OUTPUT

Output Power: 75 watts average Ipulsemax: 200A peak Vcompliancemax: Configurable up to 10 V

ENVIRONMENT

Operating Temp: 0 to 40°C Storage: -20 to 85°C Humidity: to 90% non-condensing Cooling: Forced air

INTERFACE

Interface Connector: 15 Pin "D" Sub Female Pulse Enable: +5V TTL to +15V CMOS Current Program: 0-10V for 0-loutmax Current Monitor: 0-10V for 0-loutmax Voltage Monitor: 0-10V for 0-Voutmax

PERFORMANCE

Pulse Width Range: 20usec to 2msec Max Rep Rate: 10kHz Rise/Fall Time: 10 to 50uSec. (typical) Current Regulation: 1.0% of max. output current Current Ripple: <0.5% of max. output current Current Overshoot: <5% of max. output current Power Limit: Limited to maximum average power with power fold-back circuit



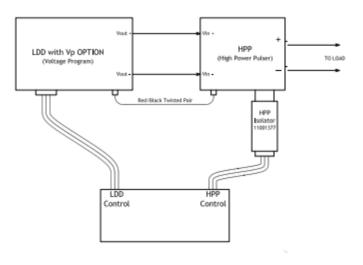
HPP-6000 Laser Diode Pulser

Specifications:

INPUT Voltage: Power Source:	12 to 150VDC(see page 4) Modified LDD-series laser diode driver (HP or VP Option)
OUTPUT Power: Pulse widths Output Voltage: Output Current: Efficiency: Regulation: Rise Time:	≤6000W Average Power ~50µs to CW 10 to 150 Volts. 1000 amps maximum >90% at full output 0.5% @100Hz <15µs (Voltage/Current dependant)
INTERFACE Connector: Voltage Program: Voltage/current Monitors: Pulse Input: Temperature Fault Option Simmer	15 Pin "D" Sub Female 0-10V for 0-Max Voltage 0-10V for 0-Max Voltage TTL TTL 12 amps max
ENVIRONMENT Operating Temp: Storage:	0 to 40°C -20 to 85°C

NOTE: The HPP-6000 pulser is designed to be powered by a modified LDD series CW laser diode driver. Consult factory for exact LDD/HPP combinations for your application.

Due to the potential for ground loops between the LDD and HPP-6000 interfaces an isolator is required. Use Lumina Power supply Isolator part number 11001377. See block diagram on page 5.





HPP-750 Laser Diode Pulser

Specifications:

INPUT

Voltage: 12 to 120VDC Power Source: Modified LDD-series laser diode driver (HP Option)

OUTPUT

Power: 750 Average Power Maximum Pulse widths ~50µs to CW Output Voltage: 10 to 120 Volts. Output Current: 350 amps Maximum Efficiency: >95% at full output Regulation: 0.5%

INTERFACE

Connector: 15 Pin "D" Sub Female Voltage Program: 0-10V for 0-Max Voltage Voltage/current Monitors: 0-10V for 0-Max Voltage Pulse Input: TTL Temperature Fault TTL

NOTE: The HPP-750 pulser is designed to be powered by a modified LDD series CW laser diode driver.

Consult factory for exact LDD/HPP combinations for your application.

Accesories: HPP-750 comes standard with 1 meter low inductance cable. Custom cable lengths are available.

To avoid ground loops in some installations an Interface Isolator may be required.



ENVIRONMENT

Operating Temp: 0 to 40°C Storage: -20 to 85°C Humidity: 0 to 90% non-condensing Cooling: Forced air Output Cable: 36" (91cm) Custom low inductance flatstrip cable

LDQCW Quasi-CW Laser Diode Driver

Model	Pout Max.	lout Max.	Input Voltage	Size (L xW x H)
LDQCW-50-XX-YY-ZZ	50 W	120 Amps	90-264 VAC	9.9"x7.3"x2.6" 25.2x18.6x6.6 CM
LDQCW-250XX-YY-ZZ	250 W	200 Amps	90-264 VAC	10.9"x7.3"x4.81"
LDQCW-600-XX-YY-ZZ	600 W	200 Amps	90-264 VAC	27.2x18.5x12.2 CM

XX = Maximum pulsed output current.

YY = Required compliance voltage (unit will drive a load betweem 75% and 100% of this voltage)

ZZ = Maximum pulse width at maximum pulsed output current - specified by customer

NOTE 1: Average powe must not exceed Poutavg

NOTE 2: Output current and voltage compliance can be configured for individual requirements. Auxiliary Outputs: +/-15V @ 0.5A (Auxiliary output on LDQCW-50: +12V @ 50mA) Other Configurations Available Upon Request

INPUT

Voltage: See table above Power Factor: >.98 OUTPUT Poutavg See table above Ipulsemax 200Apeak Iavgmax 80A Vcompliancemax Configurable up to 100V

INTERFACE

Interface Connector: 15 Pin "D" Sub Female Pulse Enable: +5V TTL to +15V CMOS Current Program: 0-10V for 0-loutmax Current Monitor: 0-10V for 0-loutmax Voltage Monitor: 0-10V for 0-Voutmax

PERFORMANCE

Pulse Width Range: 50usec to 2msec Max Rep Rate: 10kHz Rise/Fall Time: <25uSec Current Regulation: 1.0% of Maximum output current Current Ripple: <0.5% of maximum output current Current Overshoot: <5% of maximum output current Power Limit: Limited to maximum average power with power fold-back circuit



ENVIRONMENT

Operating Temp: 0 to 40°C Storage: -20 to 85°C Humidity: to 90% non-condensing Cooling: Forced air

REGULATORY

Safety: Compliant with UL60950

MECHANICAL

Dimensions: See table above Input Power Connector: Phoenix DMKDS 2,5 Terminal Block Output Connector: Ampower Wavecrimp Connector #765608-1 (Strip Line system)

Specifications

OUTPUT

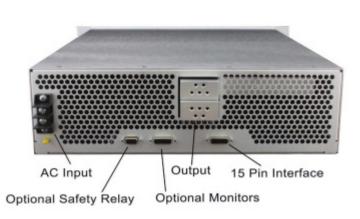
Power: 4000 watts Continous (CW) 4000 watts average (pulsed) Output Voltage: 50V max. Standard (higher voltages available) Current: 350 amps (Pulsed) * 250 amps (CW) * See derating chart below

INPUT

Voltage: 200 to 240VAC ±10%, 50/60 Hz Frequency: 47 to 63 Hz Power Factor: > .98

INTERFACE

Connector: 15 Pin "D" Sub Female Current Program: 0-10V for 0-Max Current Current Monitor: 0-10V for 0-Max Current Voltage Monitor: 0-10V for 0-Max Voltage



Fall Time: Current Regulation: <0.5% of Maximum output

current

PERFORMANCE

Current Ripple: <0.5% of maximum output current Current Overshoot: <1% of max. output current Power Limit: Limited to max. power with power fold-back circuit

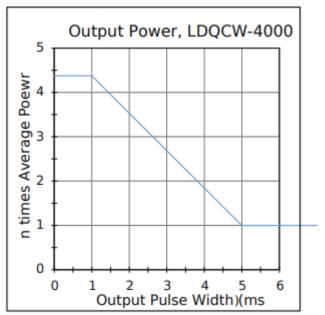
Rise/fall Time: 5 to 10µs. (proportional to Vout.)

ENVIRONMENT

Operating Temp: 0 to 40°C Storage: -20 to 85°C Humidity: 0 to 90% non-condensing Cooling: Forced air

AUXILIARY OUTPUTS

+15V @ 50mA.





LDY Series CW/QCW Laser Diode Drivers

Model	Pout Max	lout Max	Input Voltage	Size (LxWxH)
LDY-600-XX-YY	600 Watts	100 Amps	100 to 240 VAC +/- 10%	9.9"x7.3"x2.6" 25.1x18.5x6.6cm
LDY-1000-XX-YY	1000 Watts			
LDY-1500-XX-YY	1500 Watts		200 to 240 VAC +/- 10%	
LDY-2500-XX-YY	2500 Watts	150 Amps		13.0"x8.5"x3.43" 32.9x21.6x8.7cm

Note: XX = Maximum required output current. YY = Maximum required compliance voltage.

Specifications

INPUT

Voltage: See table above Frequency: 47 to 63 Hz Power Factor: >.98

INTERFACE

Connector: 15 Pin "D" Sub Female Current Program: 0-10V for 0-Max Current Current Monitor: 0-10V for 0-Max Current Voltage Monitor: 0-10V for 0-Max Voltage

PERFORMANCE

Rise/Fall Time: ~1msec. (see Page 4) 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

ENVIRONMENT

Operating Temp: 0 to 40°C Storage: -20 to 85°C Humidity: 0 to 90% non-condensing Cooling: Forced air

REGULATORY

Safety: LDY-600/1000/1500: UL60950 (Industrial), UL60601-1 (medical) Emissions/Immunity: FCC 47 CFR Class A Emissions, EN55011:1998 Group 1 Class A Emissions, EN61000-3-2, EN61000-3-3, EN60601-1-2:2001

AUXILIARY OUTPUTS

+5V @ 200mA +15V @ 200mA -15V @ 200mA



LDD CW Laser Diode Drivers

Model	Pout _{max}	lout _{max}	Input Voltage	Size (L x W x H)
LDD-50-XX-YY	50 Watts	15 amps		6.75" x 3.63" x 3.25" 17.1 x 9.2 x 8.26 cm
LDD-100-XX-YY	100 Watts	50 amps		
LDD-150-XX-YY	150 Watts	60 amps		7.5" x 5.8" x 2.6" 19 x 14.7 x 6.6 cm
LDD-250-XX-YY	250 Watts	80 amps	100-240VAC ± 10%	
LDD-600-XX-YY	600 Watts			
LDD-1000-XX-YY	1000 Watts	100 amps		9.9" x 7.3"x 2,6" 25.1 x 18.5 x 6.6 cm
LDD-1500-XX-YY	1500 Watts		200-240VAC ± 10%	
LDD-3000-XX-YY	3000 Watts	200 amps		17" x 16.6" x 3.4" 43.2 x 42.2 x 8.6 cm
LDD-6000-XX-YY	6000 Watts	300 amps	200-440VAC ± 10% 3Ø	17.3" x 16.6" x 4.25" 43.9 x 42.2 x 10.8 cm

XX = maximum required output current, YY= maximum required compliance voltage

See table above

Specifications

INPUT

Voltage: Power Factor:

INTERFACE

Connector:15 Pin "D" Sub FemaleCurrent Program:0-10V for 0-Max CurrentCurrent Monitor:0-10V for 0-Max CurrentVoltage Monitor:0-10V for 0-Max Voltage(Optional RS232 interface available)

>.98

PERFORMANCE

Rise/Fall Time:

Current Regulation: Current Ripple: Current Overshoot: Power Limit: <1msec standard (faster rise times available) <0.5% of Maximum output current <0.5% of maximum output current <1% of maximum output current

Limited to maximum power with power fold-back circuit



ENVIRONMENT

Operating Temp: Storage: Humidity: Cooling: 0 to 40°C -20 to 85°C 0 to 90% non-condensing Forced air

REGULATORY

Safety: LDD-150/250: UL60950 LDD-600/1000/1500: UL60950 (Industrial), UL60601-1 (medical) Emissions/Immunity: FCC 47 CFR Class A Emissions, EN55011:1998 Group 1 Class A Emissions, EN61000-3-2, EN61000-3-3, EN60601-1-2:2001

AUXILIARY OUTPUTS

+5V @ 200mA +15V @ 200mA -15V @ 200mA

Note: No auxiliary outputs on LDD-50, No +5V output on LDD-100/150

LC Series Universal Controller



Lumina Power announces the new LC series **Feature:** controller that easily connects your computer to . any Lumina Power power supply. This new in- . terface device converts the standard input and . output signals from the power supply to an Ethernet connection allowing for GUI control over the various functions of the supply. Users can now control output voltage and current along with enable, interlock and pulsing. Depending upon power supply model, monitor functions include output voltage, current, pulse width, repetition rate, faults and end of charge. Easy to use App included

Dimensions: 6.5 x 3.25 x 1.25 inches



- 1. DC input
- 2. Ethernet
- 3. BNC Pulse

- Easily control any Lumina power supply
- Ethernet connection to computer or network
- Graphical interface for setup and control
- Control and monitor all of the functions of the power supply

Serial #	Client: 1.0	
	Client: 1.0	
Control	V-Mon 4095	
Interlock Off Controls	I-Mon 4095 Re	eadb
Output 0 Update 4095	Fault 4095	
Output U Opdate 4095	Temp 4095	
Pusling Start On Time: 0 µs Off Time: 0 µs		
Rep Rate (Hz) 100kHz	Pulsing	
Pulse Width (10µs) 10 ms	Fuising	
Settings		
Rated Output Current (A) 100A	Settings	
nated Output Current (A)		

Computer Interface

Ordering Information: Order the LC-Controller by adding the model number to the standard description. Example: LC-Controller- CCPF. This version will control the CCPF series capacitor charging power supplies.

