

# Comparison sheet LDD - LDX - LDY series 600-1500W



## Programming interface

Pin #	Pin Name LDD	Pin Name LDX	Pin Name LDY	Functional Voltage Level	Description
1	Enable (input)	Enable (input)	Enable (input)	High=RUN =+5V to +15V Low = OFF = 0V	The <b>Enable</b> function turns the output section of the power supply ON and OFF. When the power supply is enabled, current is delivered to load as programmed via <b>Iprogram(+)</b> , Pin 7, if the <b>Pulse Control</b> , Pin 8, is High (or if no connection has been made to <b>Pulse Control</b> ). Rise times resulting from <b>Enable</b> are approximately 25msec. For faster pulsing, the <b>Enable</b> function should be set to ON, and the <b>Pulsing Control</b> , Pin 8, should be used.
2	N/C	N/C	Crowbarstatus	High=Crowbar ON = +5V Low = Crowbar OFF = 0V	The <b>Crowbar Status</b> reports the status of the shorting crowbar clamp across the output. The crowbar will short the output under two conditions: 1) When the output is not ENABLED via Pin 1, or, 2) if the output is ENABLED via pin 1 but the control circuitry has detected a no- load condition or a voltage requirement on the output that exceeds the maximum voltage rating of the unit. A TTL+5V signal on Pin 2 reports that the crowbar is shorting the output. To turn the crowbar off, an appropriate load must be connected to the LDD and the output must be turned off and on via Pin 1, ENABLE.
3	Interlock (input)	Interlock (input)	Interlock (input)	Open = OFF Connect to GND=RUN	The <b>Interlock</b> function can be connected to external interlock switches such as door or overtemp switches.
5	Vout Monitor: (output)	Vout Monitor: (output)	Vout Monitor: (output)	0 – 10V = 0V - Umax	The output voltage of the supply can be monitored by <b>Vout Monitor</b> . For output voltages less than 10V, <b>Vout Monitor</b> = Vout. For output voltages greater than or equal to 10V, 0-10V = 0 - Voutmax.
6	Iout Monitor (output)	Iout Monitor (output)	Iout Monitor (output)	0 – 10V = 0A - Imax	The output current of the supply can be monitored by <b>Iout Monitor</b> .
7	Iprogram(+): (input)	Iprogram(+): (input)	Iprogram(+): (input)	0 – 10V = 0A - Imax	The power supply output current is set by applying a 0-10V analog signal to <b>Iprogram(+)</b> .
8	N/C (input)	Pulse Control (input)	Pulse Control (input)	TTL High = On TTL Low = OFF  <b>Default = OFF</b>	The output may be pulsed by applying a TTL signal to <b>Pulse Control</b> , pin 8. The amplitude of the output current pulse is determined by the current level programmed via Pin 7, <b>Iprogram(+)</b> . Rise fall times of <1msec are typical. Rise fall times of 300usec can be achieved when the fast rise time option, -FR is added to the model number. <b>This unit has configured for low frequency pulsing. High pulsing frequencies will result in overheating of the output capacitors. In order to run CW, +5V must be applied to Pin 8 in order to override the pulsing function. If the user does not plan on pulsing the output, the user can connect Pin 8 to ENABLE, Pin 1. The unit will then deliver current as programmed via Iprogram(+)</b>
10	+5V @ 0.5A (output)	+5V @ 0.5A (output)	+5V @ 0.5A (output)		Auxiliary +5V power supply for user. Up to 0.5A output current capability.
11	+5V @ 0.5A (output)	+5V @ 0.5A (output)	Over-Temp Warning (output)	TTL High = High Temp TTL Low = Temp OK	When temperature of main heat sink exceeds 65 Deg C, Pin 11, the OverTemp Warning, will go to a TTL High to indicate unit is in danger of shutting down due to over-temperature condition. When temperature of main heat sink exceeds 75 Deg C, unit will shut down. <b>Please check the wiring of this pin if you displace a LDD or LDX with LDY.</b>
12	-15V @0.5A (output)	-15V @0.5A (output)	-15V @0.5A (output)		Auxiliary -15V power supply for user. Up to -0.5A output current available.
13,14	+15V @0.5A (output)	+15V @0.5A (output)	+15V @0.5A (output)		Auxiliary +15V power supply for user. Up to 0.5A output current available.
4,9,15	Gnd	Gnd	Gnd		Interface return

Current control DIP Switch	No	Yes	Yes	The LDY includes a DIP switch array which may be set to limit the maximum current. This is useful when an OEM customer would like to use a single model for a variety of systems, but has a laser diode system which does not require the maximum output current.
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Available	Yes	till 12/2006	since 01/2007
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